iPoint NVR Client System

USER'S GUIDE

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Introduction

Thank you for purchasing the iPoint NVR Client System. This operation manual is to guide the setup of the iPoint NVR Client system and explain each function. Users should read this manual; thoroughly before installing or utilizing the ipoint NVR Client System. This NVR Client System can connect PC-DVR (NV DVR system), EM-DVR and DVS. It can also set them and search their recording data remotely. In addition, it can view the server's log (only for PC-DVR) from long-distance, supporting IE browser connect DVR client.

New Functions

- Onvif support. Refer to Page 36.
- Search multi-server at a time remotely. Refer to Page 67.
- MAC OS supported. Users can ask our sales team to offer this version.
- View up to 4 channels via iPhone mobile client.
- iPad support.
- Web client updated. Refer to Page 72.

For iPhone functions, please refer to our iPhone user manual for details.

System Features

- Support mobile client, such as Android, iPhone and Blackberry etc.
- Supports the following eight kinds of resolution: 1024*768 pixels, 1280*768 pixels, 1280*1024 pixels, 1366*768 pixels, 1440*900 pixels, 1600*900 pixels, 1680*1050 pixels and 1920*1080 pixels.
- Supports 64-bit OS installation.
- Supports PC Decoder function. It is integrated to support multi-monitor for TV wall function. User can drag any board card cameras or IP cameras supported by our software to any window on the TV wall. You can connect as many as 24 monitors to the system.
- Supports E-Map function. It can be used to deal with variety of alarms, such as sensor alarm; motion detection alarm; etc. It can switch to display video images of related alarm cameras automatically. User can click them to locate where the alarm was triggered out. And the corresponding names of camera will be displayed on screen.
- Supports remote motion setup for PC-DVR
- Supports multiple brands of IP cameras, such as Mobotix; Sony; Acti; Sanyo; Arecontvision; Vivotek; etc.
- Supports play back according to device name
- Supports instant playback in 480 sec
- Supports write log while in alarm. User can search the record video in system log
- Supports display the video from alarm server automatically
- Support adjust the window split mode between Normal mode and wide screen mode
- P/T/Z/F and speed demo control on keyboard
- Network support (Remote access via LAN, Ethernet, PSTN, ISDN, ADSL)

Important Information

For optimal performance of your system, it is important to follow these recommendations.
We recommend that you divide your hard disk into at least two partitions (E.g. C and D). The first partition is used to install Windows OS and system software; the others are for storing recorded files. Each partition should not be larger than 2.5TB. Please use an appropriate motherboard and display card. Contact your dealers or our support engineers if you have questions.

Recommended System Requirements

Chipset:	Intel 875PE, 915P, 945P, 965P
Motherboard:	Intel: D915/945PCY, D865PERL Asus: P4P800SE, P5P800 MSI: 865PE Neo2-F, 915/925/945; Gigabit: GA-865GME, GA-945PL-G, etc.
Video Card:	ATI Rodeon 9250 128MB, ATI Radeon 9550 128MB, ATI X500, X550, X700 etc;
Processor:	Intel Pentium 4 2.4GHz or better
Memory:	512MB minimum

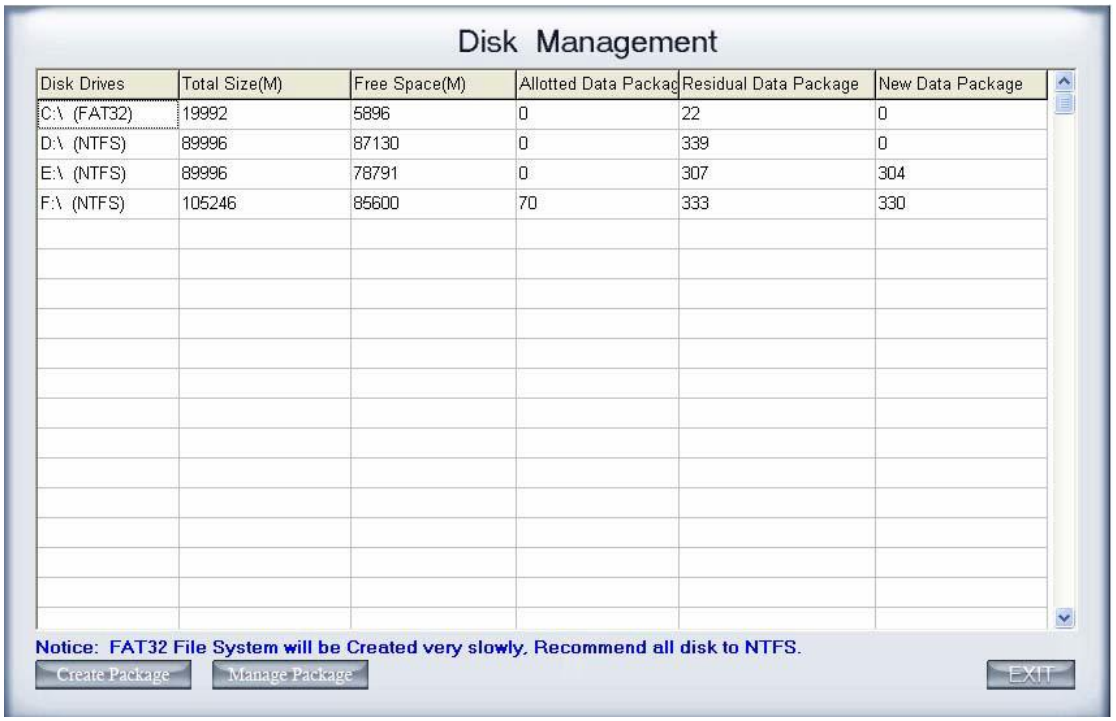
Chapter 1 Start up and Main Interface

1.1 Preparation & Uninstall

When you want to mix your DG cards and NV cards on the same PC, you have to use DVR 6.36. You will have to update NVR to 6.36 to avoid problems when you do remote setup from the iPoint NVR Client System.

1.1.1 Preparation

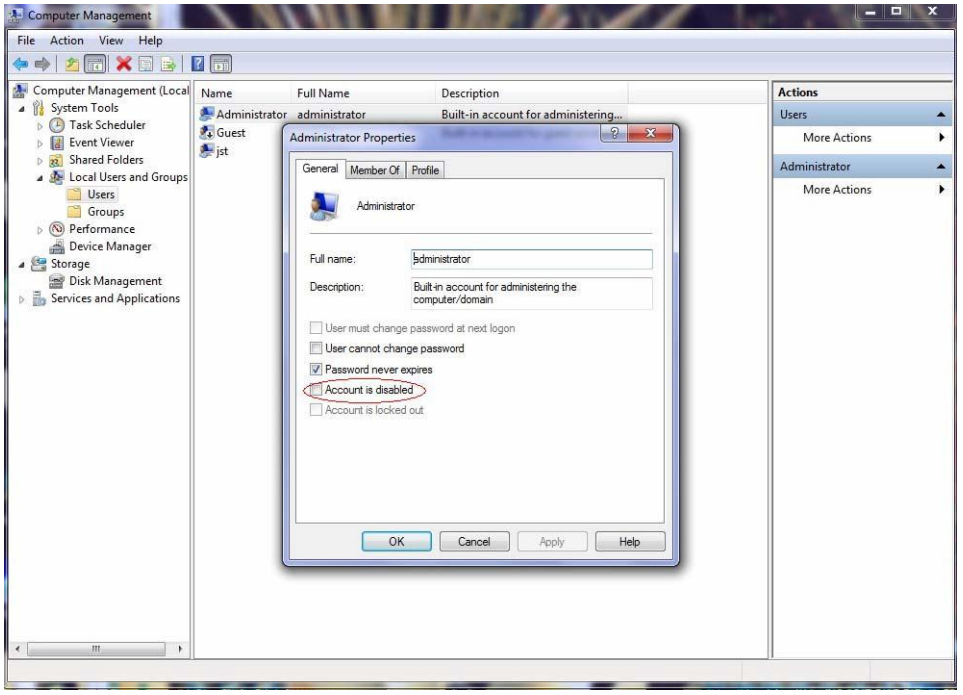
After installing the iPoint NVR Client System, the user must assign space for recording. Otherwise, the software can't record normally. Actually, the system will run the disk management automatically before the user runs the iPoint NVR Client System the first time. Also, the user can run the disk manager to assign space whenever you want. How-
ever, you should input correct user names and passwords to get access to Disk Management when manger disables the disk manage right of some operators in Right setup.



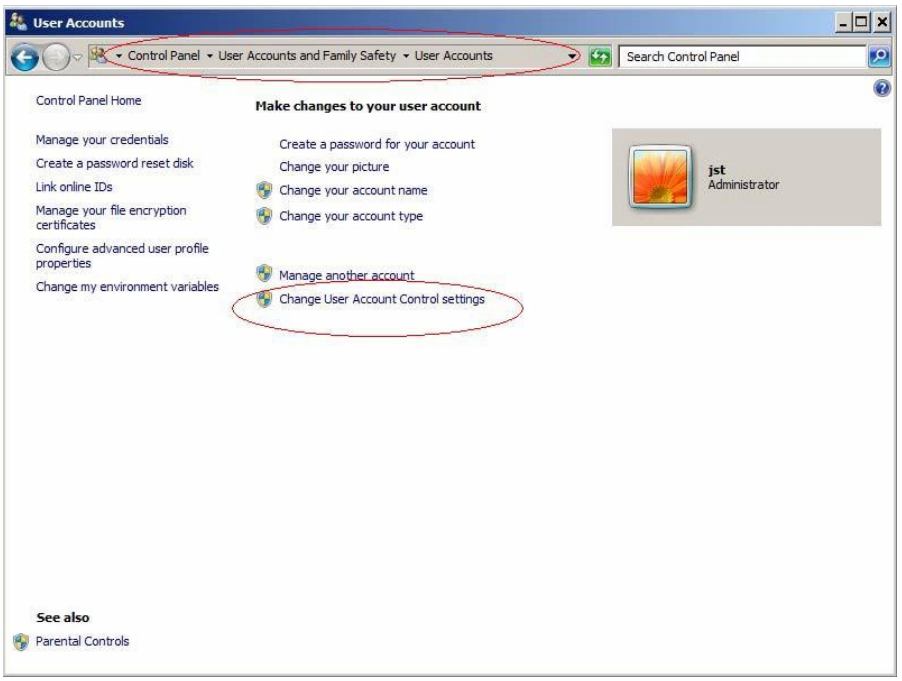
For details, please refer to the particular manual in the iPoint DVR server manual.

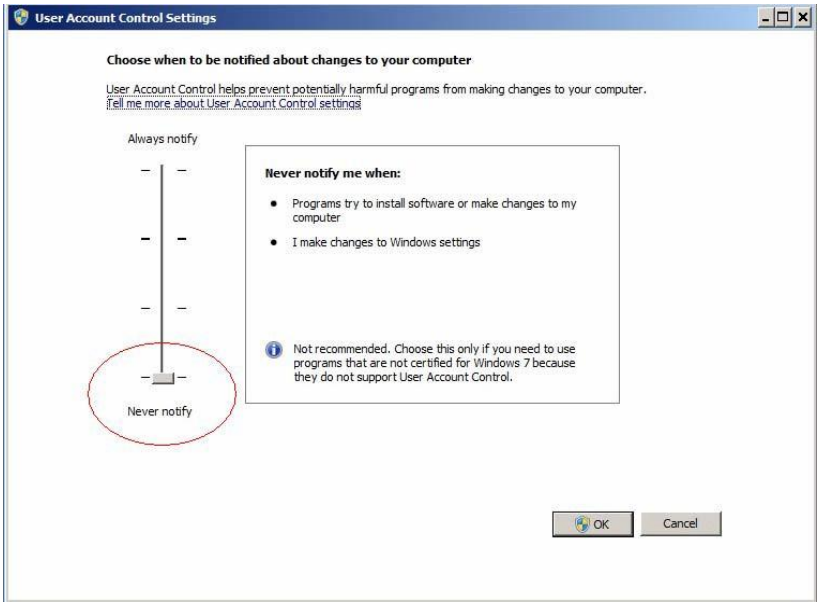
In order for the iPoint NVR Client System to run normally in Windows 7 OS, please note that one of the following must be done:

1. Activate "administrator" to do all the operations, such as install software, operate software, etc. The steps to activate are below: First, single-right-click the "Computer" icon -> Manage -> Local Users and Groups -> Users -> Administrators -> do not check "Account is disabled". Then switch user or log off to log in with Administrator.



2. Adjust UAC settings to "Never Notify", shown in the below pictures:

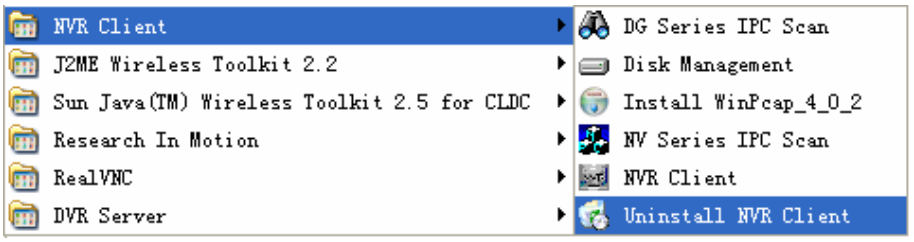




To use the 64 bit OS, you have to download and install two patches: KB978637 and KB976264. You should download them from MSDNAA manually. They cannot be installed automatically when system updates.

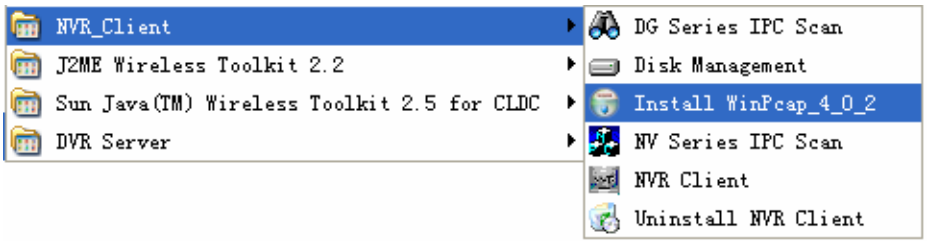
1.1.2 Uninstall

When you want to change this version to another one, you should uninstall it. Click Start/:E All programs/:E NVR Client/:E "Uninstall NVR Client" to uninstall NVR.

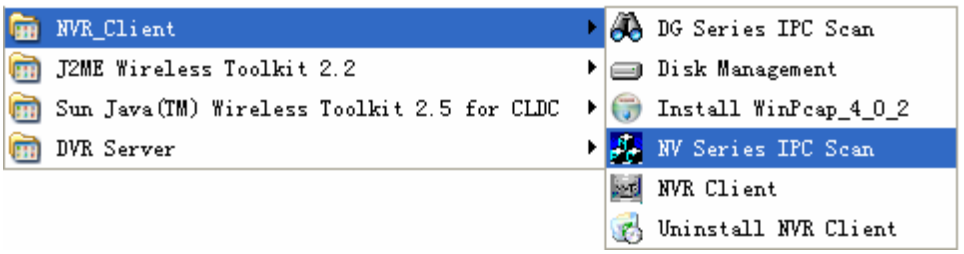


1.1.3 NV Series IPC Scan

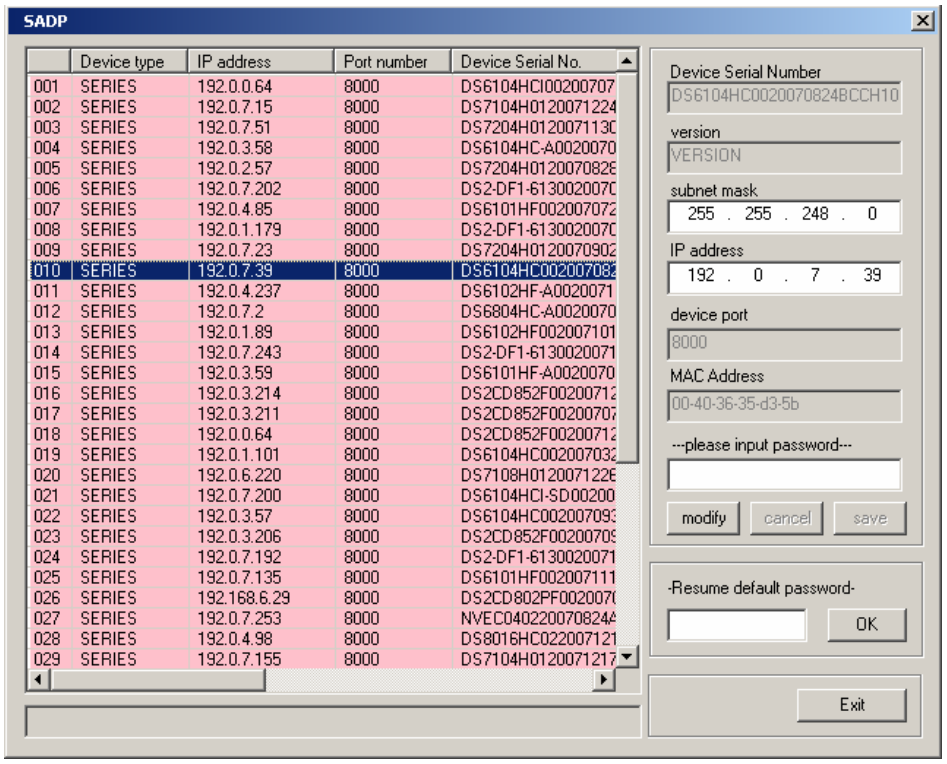
Click Start/:E All programs/:E NVR_Client/:E Install WinPcap_4_0_2 to install the NV series IPC scan tool.



Click Start/:E All programs/:E NVR_Client/:E "NV Series IPC Scan" to scan NV series IP cameras connected in the LAN.



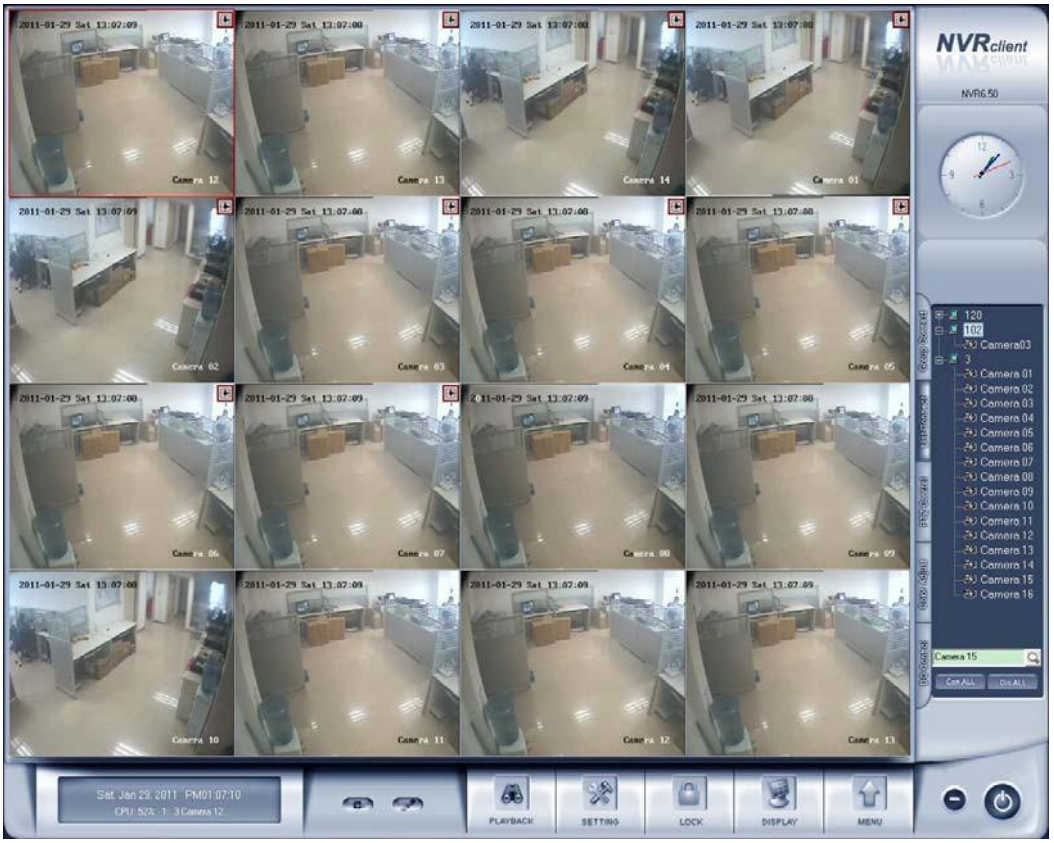
Device type, IP address, Port number, Device Serial No., Mask, MAC, Channels, Software version, DSP version and Start time will be displayed in the search tool. You can modify the IP and port more conveniently when you click the “modify” button on the right.



Note:
To DG series IPC scan please refer to ***Add DG Series IP Device*** for details in the iPoint DVR user manual.

1.2 Start up

After installing the iPoint NVR Client software, a shortcut icon will be shown on the Windows desktop. Double click it to run the iPoint NVR Client System software, the main interface will appear as the follows:



1.3 Main Interface

1.3.1 Show Tips

1. When the mouse moves closer to or stops above a button, a text tip will be shown to interpret its function immediately;
2. Zoom in/out video image: Left-Double-Click a camera window to zoom in/out video image;
3. Recording status:

This icon means the system is recording continuously.

This icon means the system is recording manually.

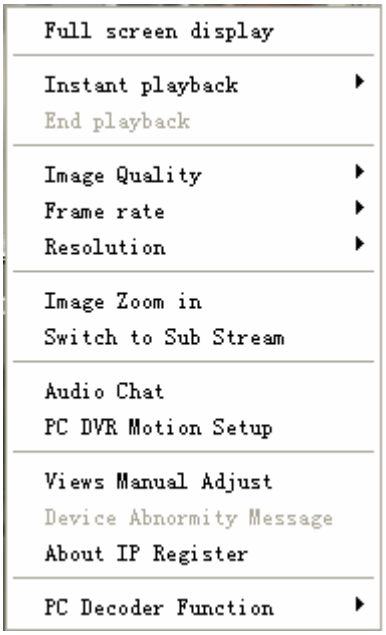
This icon means the system is recording in motion detection alarm.

This icon means the system is recording in event alarm.

1.3.2 Screen Menu

Normally, the user can press the ***TAB*** key or ***Page Down*** (select next camera window) and ***Page UP*** (select previous camera window) key on the keyboard to select a window.

Users can single-right-click the image area (PC-DVR camera windows and IP camera windows) to pop-up the screen menu as below:



Full Screen Display: Single-right-click to change the display mode to full screen mode, click again to turn back.
Instant Playback: If you have set "Instant playback max time" in the local setup, then you can use this shortcut function.

Note:
In the course of instant playback (for both the compression card camera and the IP camera), you can press the Space bar to switch the play/pause status and direction key → or ← to play next or previous frame.

End playback: To end playback.
Image Quality, Frame Rate, Resolution: for the sub-stream of PCDVR, you can adjust the image quality, frame rate and resolution. This function is only available to PC-DVR that enabled sub stream in camera setup.
IP Video Zoom in: zoom in IP video.
Switch to Sub-Stream: can be the main / sub-channel switching, if you choose the sub-channel, the images will be poorer.
PC DVR Motion Setup: Enter the motion setup remotely. It is only available for PC-DVR. For details please refer to the iPoint DVR user manual.
Views Manual/Auto Adjust: If you choose Views Auto Adjust when there is an alarm in E-map, software will adjust its splits automatically to display the cameras with alarms. Otherwise, it will not change its splits even the alarm cameras are more than the windows.
Device Abnormality Message: When the server is abnormally shut down and restarted, there will be a message record. To know the details, you can view the remote log.
About IP Register: Click this function, the registered and unregistered device information will be displayed.
PC Decoder Function: Please refer to the PC Decoder Manual for details.

Note:
Show prompt: When the mouse moves closely or stops over a button, the button function text prompt will be shown immediately.

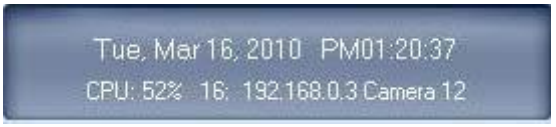
1.3.3 Interface Description

Partition Mode Press the DISPLAY button to set the display mode. There are many types of the partitions, including 1,4,6,9,13,16,20,25,28,33,36,40,49,and 64 partitions. Select the suitable partition according to your needs.

Image Capture Press the button to save a still image of a selected camera in live view that is selected by the user onto the hard disk, and then review and print the image.

Manual Record Switch Press the button to record manually to any camera. After manually recording, you must stop the recording manually.

Information Panel Date, time and display window information panel Information: Shows day of the week, current date, current time, and the percentage of CPU usage, the current selected window, and the current linkage in this window.



System Lock After you enable “use password” in Right Setup, press the button to lock the System-Lock keyboard and mouse to prevent unauthorized users from operating the iPoint NVR Client system. Left-Single-Click this button to acquire the operation rights by entering the user and password, default user ID is “admin”, no password.

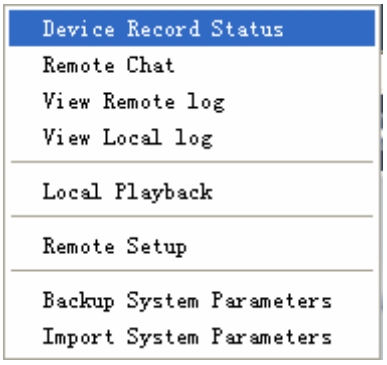
Setting Press the button to enter the Local Setup submenu. In this menu, you can set the system and related parameters.

Playback Click the button in main interface to enter the Remote Playback interface.

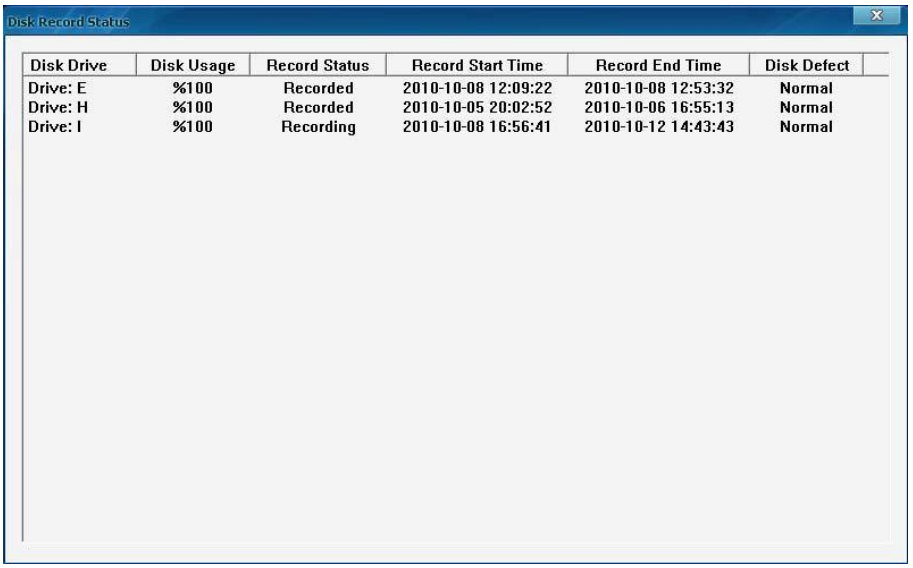
Minimize Button Press the button to minimize the main window.

Exit Program Press the button to exit the program. After clicking this button, a dialog box will be displayed. Click “OK” to quit the iPoint NVR client system.

1.3.4 System Menu



1. **Device Record Status**
   Select this item to view the record status of the PC-DVR.
   Please note this function is only available to the PC-DVR, and the PC-DVR should be the same version as your NVR. Otherwise, you will get an error saying “The IP device doesn’t support this function”.

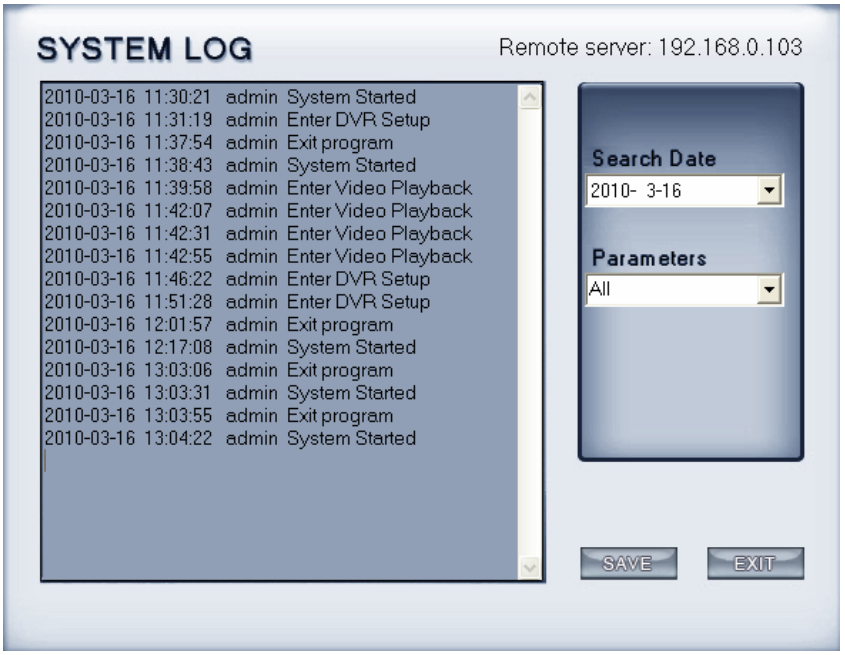


Disk Drive	Disk Usage	Record Status	Record Start Time	Record End Time	Disk Defect
Drive: E	%100	Recorded	2010-10-08 12:09:22	2010-10-08 12:53:32	Normal
Drive: H	%100	Recorded	2010-10-05 20:02:52	2010-10-06 16:55:13	Normal
Drive: I	%100	Recording	2010-10-08 16:56:41	2010-10-12 14:43:43	Normal

2. **Remote Chat**
   Press Remote Chat to make a voice chat. Click it to have remote chat with the connected server. Sound card with mouse input must be used. If there is no sound card on either side, the chat will not be carried out.

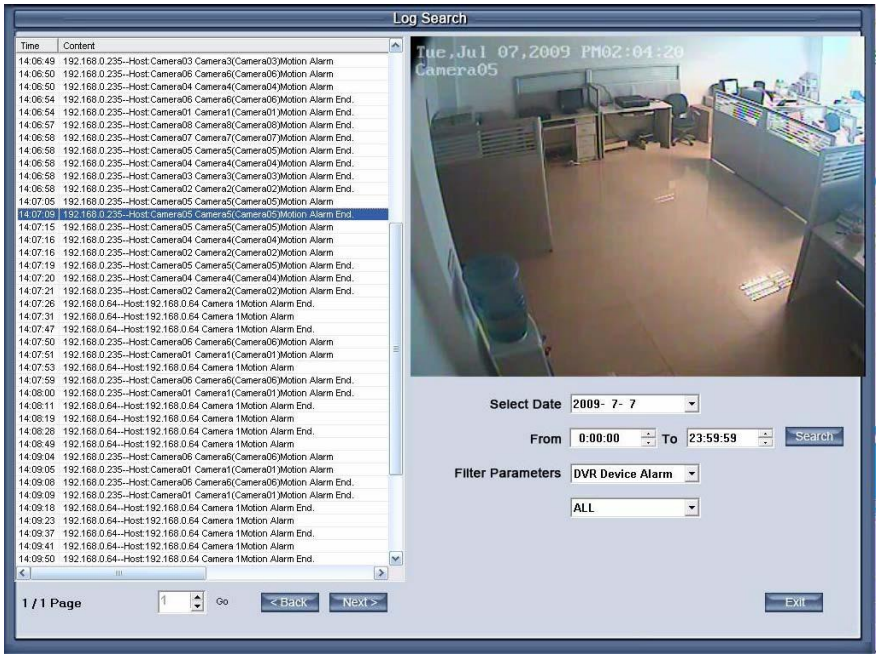
Select a server from the drop-down menu list to make a remote chat. If connected successfully, there will be an icon tip to show it.

3. View Remote Log

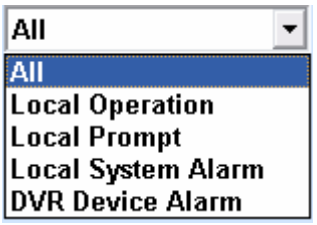


Press the button to search the log from a long distance server you are connected to. It is good that no one be on duty on the server end. You can see information on the server and you needn't get to the server site.

Note:
Remote log is only available to PC-DVR.



4. View Local Log



Local system logs keep a record of system events such as local operation, local prompt, local system alarm and DVR device alarm according to time and date. Users can search log by date, time and system parameters.
When there is a motion alarm triggered out, the user can view its record on the top right of this interface. But you should confirm that you have enabled the "write log while alarm" in Local System Setup first. Besides, if the motion alarm lasts only for a short time, there may be no picture record in system log.

5. Local Playback
Select ***Local Playback*** to enter Local Playback submenu.

6. Remote Setup
Select Remote Setup to enter the Remote Setup sub-menu. In this menu, you can set the server's parameters remotely.

7. Backup System Parameters
Backup the system parameters to the select path.

8. Import System Parameters
Import the system parameters from the save path.

1.3.5 Connection Group

Press the

to enter the connection group setup. This panel displays the information of groups and cameras. There are 18 preset groups and you can choose any one group to connect.

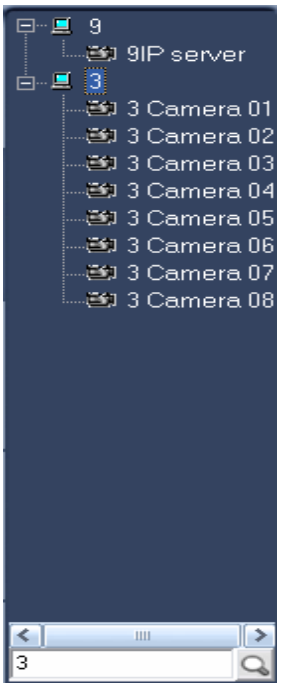
There are 64 windows and you can also click Con.ALL to connect all of them and click Dis.ALL to disconnect all. The shade of icon will show the status of the window:

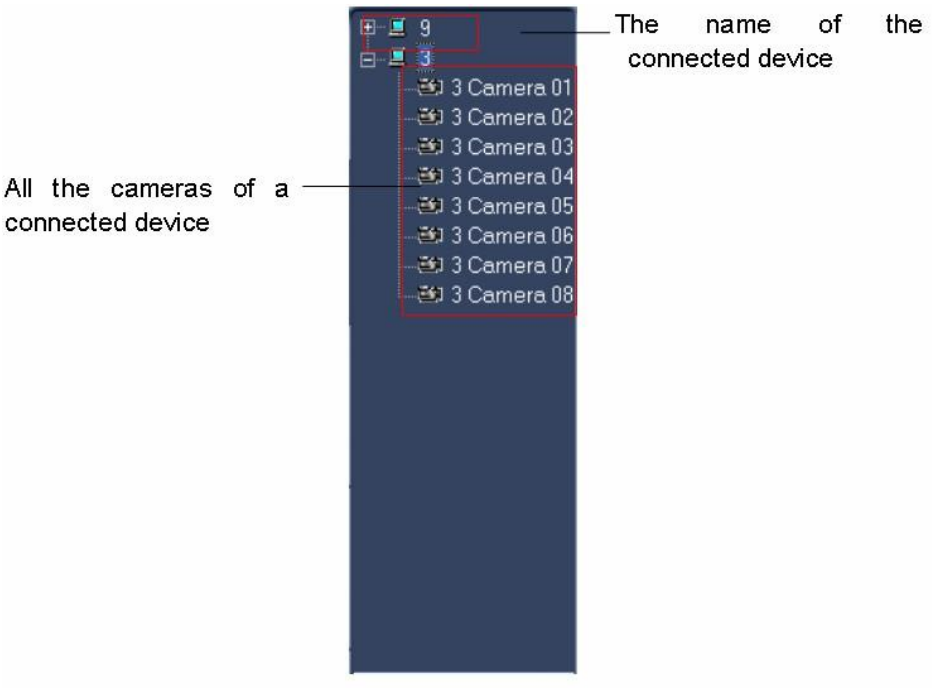
1 Window 1 disconnects
2 Window 2 connects

1.3.6 Connection List

1. List

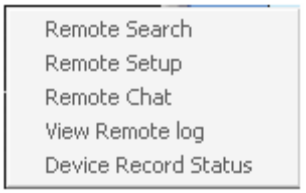
Press the List Connect button to show all the equipment you have added in this client.





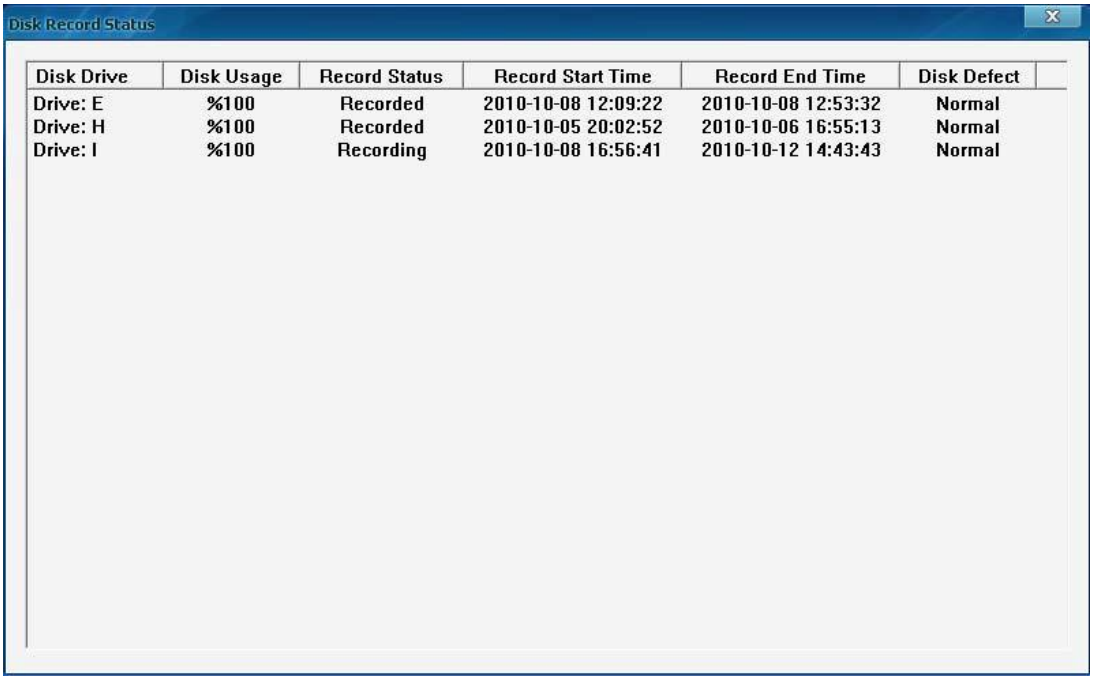
Double click one camera and it will be connected in a selected window.

2. **Quick Operations**
   There will be a menu (as shown below) if you single-right-click on the sever name.



Remote Search	Please refer to Chapter 5 for details.
Remote Setup	Please refer to Chapter 4 for details.
Remote Chat	Please refer to Page 14 for details.
View Remote Log	Please refer to Page 15 for details
Device Record Status	Select this item to view the record status of PC-DVR.

Please note this function is only available to PC-DVR and the PC-DVR should be the same version as your NVR. Otherwise, you will get an error that says “The IP device doesn’t support this function”.



Disk Drive	Disk Usage	Record Status	Record Start Time	Record End Time	Disk Defect
Drive: E	%100	Recorded	2010-10-08 12:09:22	2010-10-08 12:53:32	Normal
Drive: H	%100	Recorded	2010-10-05 20:02:52	2010-10-06 16:55:13	Normal
Drive: I	%100	Recording	2010-10-08 16:56:41	2010-10-12 14:43:43	Normal

1.3.7 PTZ Control Panel

Press the PTZ Control button to control the PTZ.

PTZ Speed Setup	Press and drag the slider bar to adjust the speed of PTZ.
Relay (On/Off)	Control the PTZ camera's internal relay (relay1) or the decoder's relay (relay 1). Used to turn on a light or control an access gate.
Wiper (On/Off)	If you are using the PTZ camera's corresponding wiper control relay, this toggles the relay/wiper on and off.
Zoom + / Zoom –	Controls the zoom functions of the PTZ camera.
Focus + / Focus –	Overrides the auto-focus setting of the PTZ camera; adjust focus the image.
Iris + / Iris –	Overrides the PTZ camera's auto-iris and brighten or darken the image.

Pressing this button initiates the connected PTZ camera to do an automatic tour of 360°.

By pressing and holding these buttons, the PTZ camera is moved up, down, right and left as well as other directions.

Preset Call

Press the Speed Dome button to operate the speed dome. Only Preset Call is available and you should set the preset remotely first.

(1) Preset Setup

In this screen you can set the preset position:

I. Add/Delete Preset

In this section you can set the preset name with its sequence number. Then you can press the + / − button to add/delete a preset. When you want to modify the preset, you can press the SET button to confirm your modification. For different cameras, there are different commands to open and set, so you can choose the call mode in the drop-down list for different cameras.

II. Home Position

You can set a home position for the PTZ. When there are no PTZ actions after the setting time, the system will call the PTZ to the home position.

III. Tour Preset

In this section you can set the tour schedule. First you can choose a group, and then set the track for this schedule; you can press the + / − button to add/delete a preset to it. After you choose the preset name, you can set the time to keep on.

2. Preset Call

When you select this function, the system will show all the preset names you set in the Preset Setup menu. You can click one to move to it.

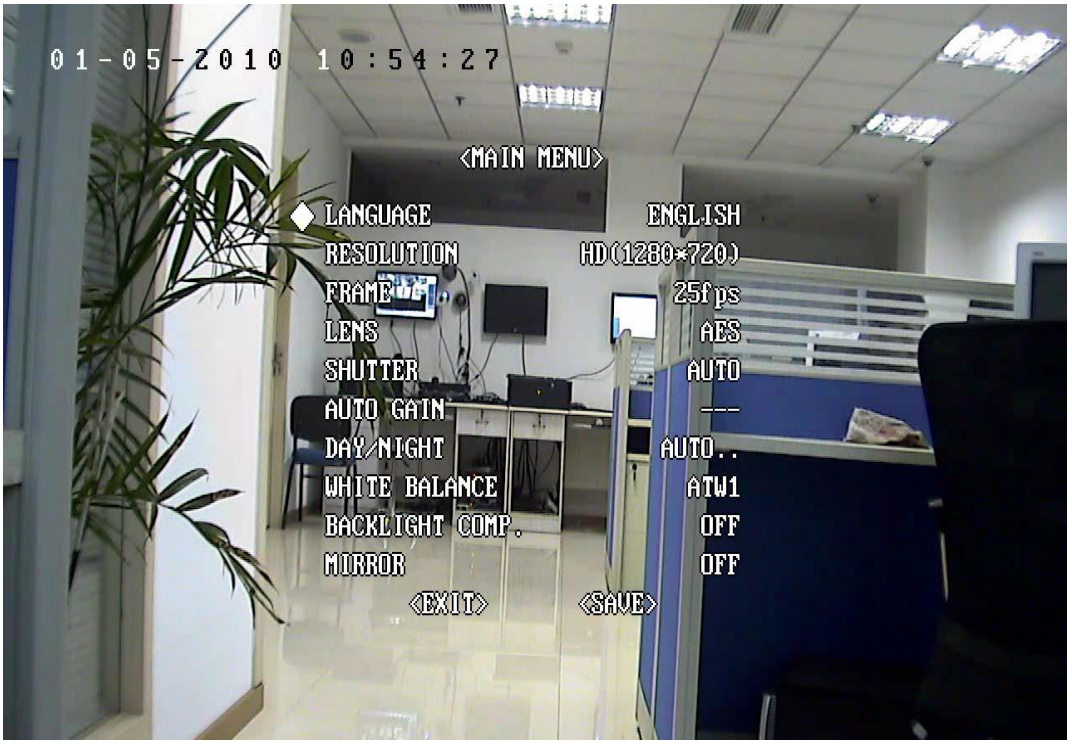
3. Preset Tour

When you select this function, the system will show the entire tour group you set in Preset Setup menu. You can click one to execute it.

Note:

In the NVR system, clicking the tour groups again cannot stop the preset tour (this is different from DVR server). You can stop the PTZ camera by clicking up, down, left, right or click the "preset call".

If the views are NV series PTZ&IP camera and mega pixel IP camera, when you call preset 95, you can see:



When you enter the menu, you can control it by using the up, down, left and right buttons. Press the IRIS – ( ) to enter the sub menu.

When you use up or down to move to “exit”, press IRIS- to exit the menu.

For details, please refer to Chapter 4 in Network Camera Menu for details.

Control PTZ via Video Window Press and drag the mouse to the corresponding area to control the PTZ when there is a decoder.

1.3.8 Color/Audio Adjustment

Press the button to enter Color/Audio Adjust Panel-Slider adjustments for the video image and recording volume of the selected tile. This also affects the live view of the video images.

① Press the first button and drag it to adjust the brightness of the image that you selected, and you can resume its default value by pressing .

② Press the second button and drag it to adjust the contrast of the image that you selected and you can resume its default value by pressing .

③ Press the third button and drag it to adjust the hue of the image that you selected, and you can resume its default value by pressing .

④ Press the fourth button and drag it to adjust the saturation of the image that you selected, and you can resume its default value by pressing .

⑤ Press the fifth button to switch the sound of the audio that related to the image you selected and drag the slider bar to adjust the volume.

1.3.9 DI/DO Control

Note:
The channel of DI and DO is determined by the connected server.

1. DI Control
   The DI number will show the alarm status of the corresponding server indicated by the shades of the icon:

2 Input channel 2 doesn't check sensor forcibly.
3 Input channel 3 checks sensor forcibly or has an alarm inputting.

When there is no alarm yet, the user can press the number button to check the sensor forcibly. Press the button again to stop checking all time, then system checks sensor according to Sensor setup. When there is an alarm, the corresponding button will show the alarm with blue.

2. DO Control

Press the number to open/close the alarm device relay switch manually. There are two types of status to DO:

2 Output channel 2 is close.
3 Output channel 3 is open.

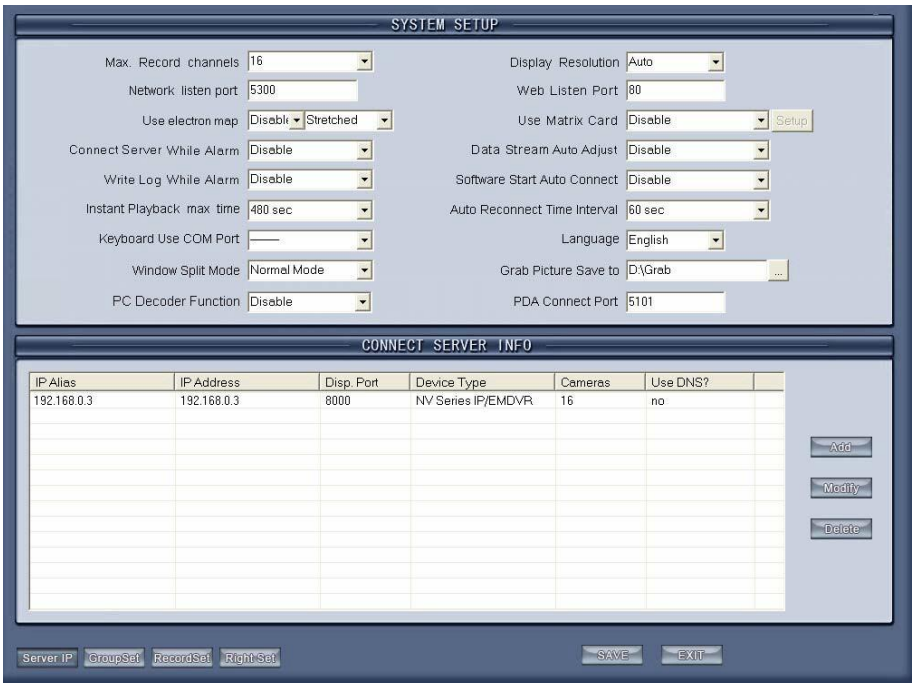
When there is no alarm triggered out, the user can press the number button to output alarm forcibly and the button will show it with green; press it again the output will be closed.

Chapter 2 Local Setup

2.1 System Setup

Click the

button to enter this interface:

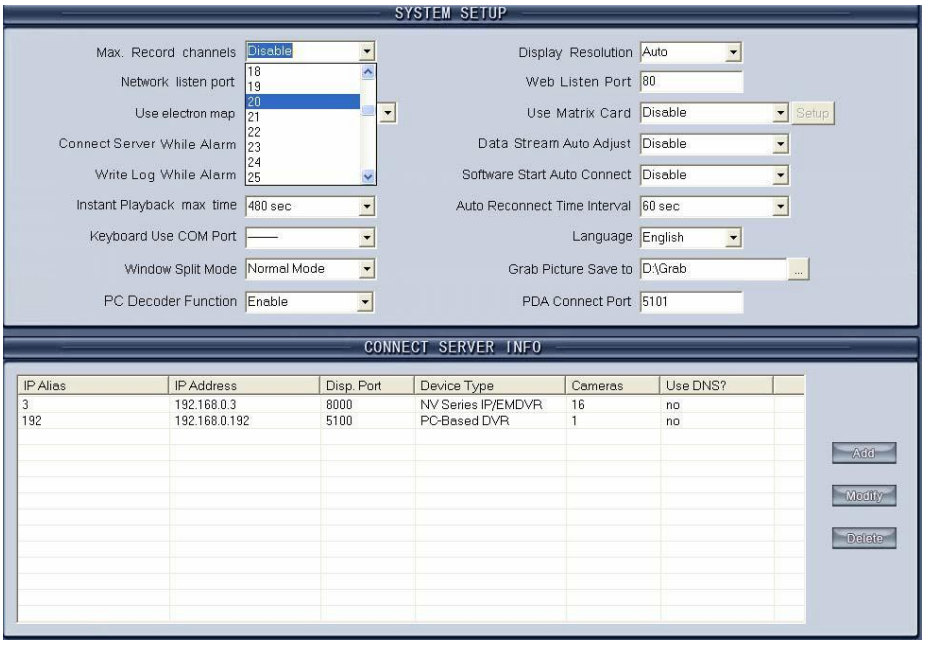


IMPORT Select this function to export system configurations.

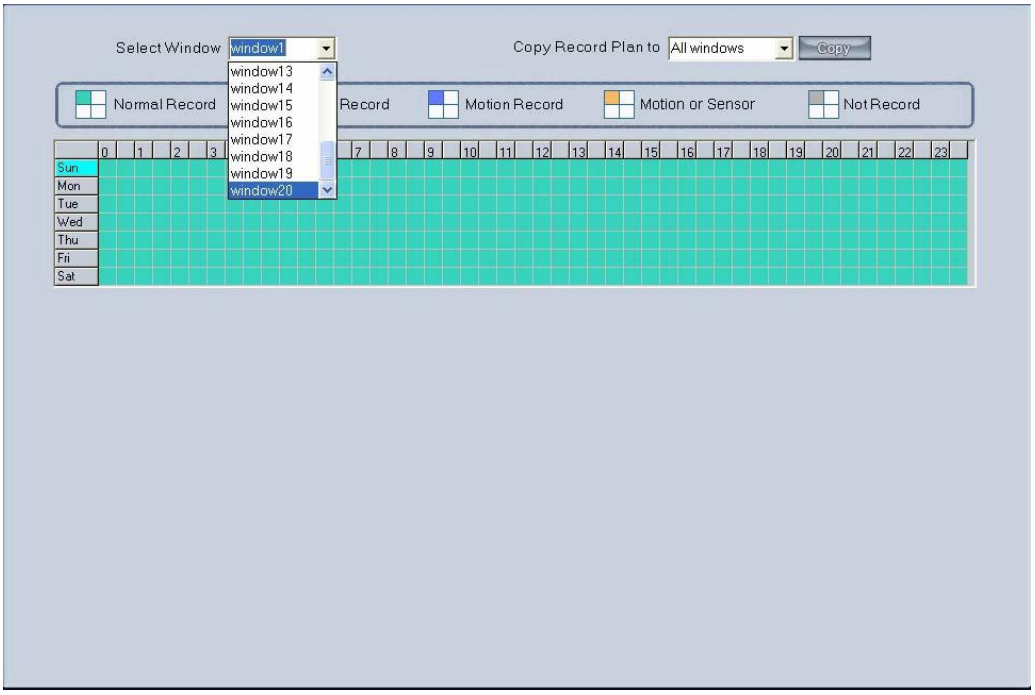
EXPORT Select this function to import system configurations.

2.1.1 System Setup

MAX RECORD CHANNELS: Set the max record channels. The maximum number is 64, if you set the number as 20 (shown as below):



Then you can set the windows1-windows20 in Record Set.



DISPLAY RESOLUTION: Select the display resolution for NVR. You can choose from "Auto, 1024*768, 1280*768, 1280*1024, 1366*768, 1440*900, 1600*900, 1680*1050 and 1920*1080". When you select "auto", the software will adjust its resolution in accordance with the resolution of the screen automatically.

NETWORK LISTEN PORT: The alarm port to connect the client. Set in server. Restart the iPoint NVR Client software to make it more efficient.

WEB LISTEN PORT: The IE client connect port. Restart the iPoint NVR Client software to make it more efficient.

USE ELECTRONIC MAP: Select disable or enable to use the electronic map. At the same time, you should choose the mode from stretched and extended. Please refer to E-map manual for details.

CONNECT SERVER WHILE ALARM ENABLE: If there is an alarm on the DVR server end, the client will connect the DVR server forwardly.

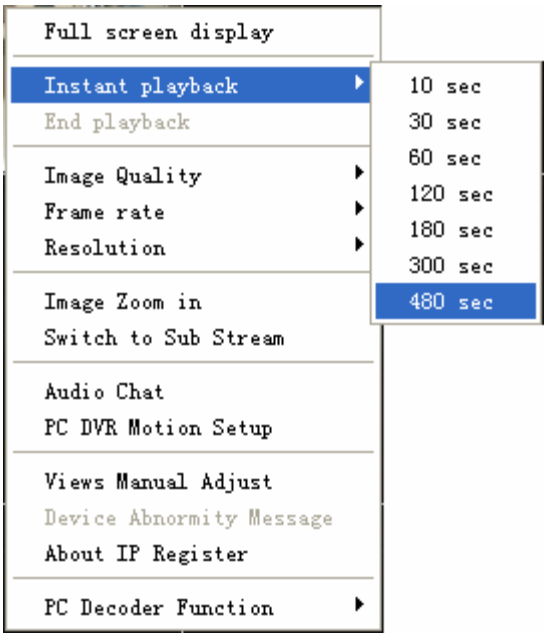
DATA STREAM AUTO ADJUST: 1,1-4,1-6,1-9,1-13,1-16 View -> Main Stream, when you select one, all the views less than what you select should be main stream.

WRITE LOG WHILE ALARM: Select whether the system writes an alarm information log or not. There will be alarm information and corresponding record in the local system log when you select enable.

DEFAULT CONNECT STREAM TYPE: Select the stream type as default.

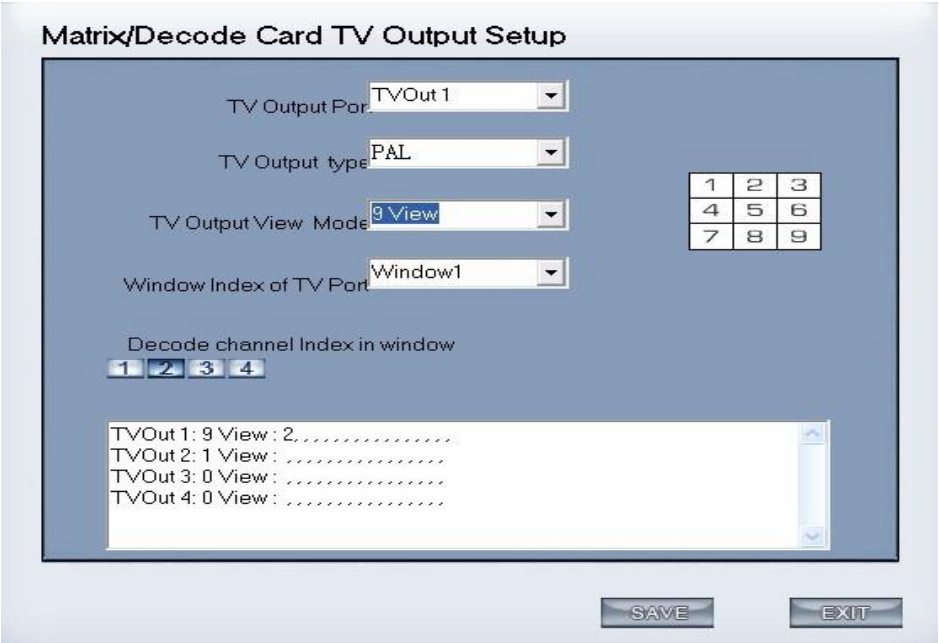
AUTO RECONNECT TIME INTERVAL: If you select the "Auto Reconnect Time Interval" function, when the software is disconnected, the software will reconnect automatically by the setting time.

INSTANT PLAYBACK MAX TIME: Set the instant playback max time or disable the function. If you select "480 sec" then you can use "Instant playback" in the main interface as below:



MATRIX CARD WORK MODE: If you use the matrix and decode card, select work mode from D1 decode mode or CIF decode mode and set it.

Note:
Each NV4002MD card can decode 2 channels D1 or 4 channels CIF.
Each NV4004MD card can decode 4 channels D1 or 8 channels CIF. The decoder will send out corresponding number channels from the first window in the sequence.



User can set each output port individually.

TV OUTPUT PORT: Select decoder card output port.

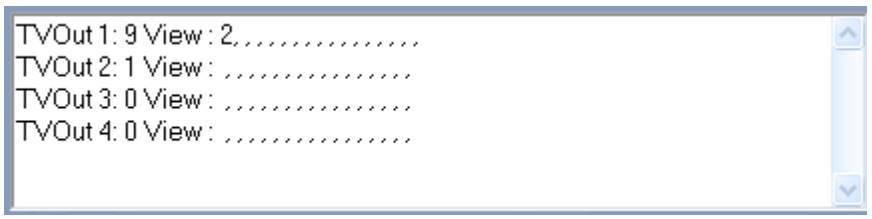
TV OUPUT VIEW MODE: Set the split mode for selected port.

WINDOW INDEX OF TV PORT: Select the index for each split window.

For example:

This icon has four windows: window1, window2, window3, and widow4

DECODE CHANNEL INDEX IN WINDOW: Select a window index for the selected window. Each window can only select one decode channel. The number of decode channels will be shown automatically according to the channels of the decode card. For example, if there is one NV4004MD card, there will be 8 decode channels shown; if there are two NV4004MD cards, there be 16 decode channels shown, if there is one 4002MD card, there will be 4 decode channels only.



This figure shown above shows that the decode channels have been selected, so that the user can't select the decoder repeatedly.

Note:
If you use “CIF decode mode”, a preview video will not appear in the NVR client main interface. The reason for this is that the resolution setup is too high in the DVR Server end. For example: D1. (Please restart NVR Client software after this item setup).

SOFTWARE START AUTO CONNECT: Select the group set in Group Setup to be connected when the program starts. When you select “Disable”, the client will not connect the camera automatically.

AUTO RECONNECT TIME INTERVAL: Select whether the client reconnects when the connection is interrupted, and the time interval. If you select “Disable”, when the connection is interrupted, the program will not reconnect. If you select the “Auto Reconnect Time Interval” function, when the software is disconnected, the software will reconnect automatically after the setting time.

KEYBOARD USE COM PORT: Select a COM port for the keyboard to connect. Please refer to the ***Keyboard Manual*** for details.

GRAB PICTUE SAVE TO: Fill in the save path that you want your captured pictures to be saved to.

LANGUAGE: Show the current language. You can change when there is another language pack.

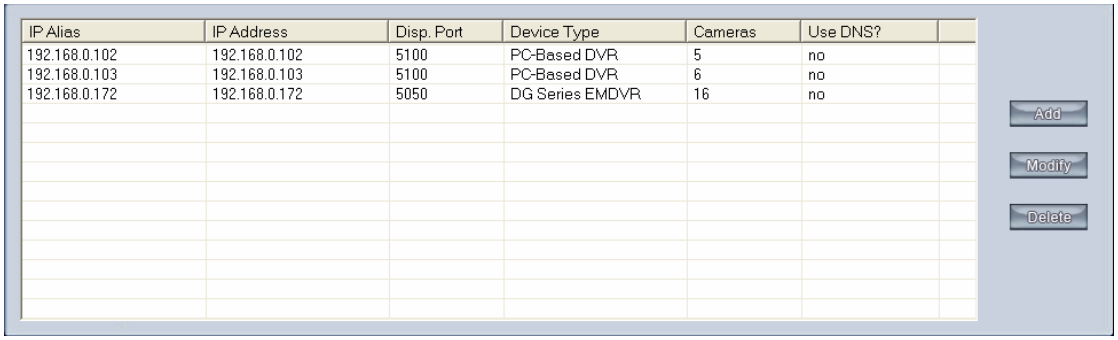
WINDOW SPLIT MODE: Select window split mode for NVR between “Normal Mode” and “Wide Screen”. You should select “Wide Screen” when you are using a wide-screen monitor. You should re-select the view window number to refresh the window split mode status.

PC DECODER FUNCTION: Select “Enable” so that you can use the PC decoder function later. It will be described in details in the PC Decoder Manual.

PDA CONNECT PORT: This port is for the PDA connection. Blackberry, iPhone, etc. are supported. When you connect a mobile client to NVR, all severs connected in NVR will be listed in your mobile phone. Select one from the list to view or operate.

Please refer to DVR User Manual for details about mobile client.

2.1.2 Add/Modify Server



ADD CONNECT SERVER: Press the Add button to add a new server in this system. When a user is adding a new server, and a problem occurs, (i.e. poor network or this server is not running), this function will fail.

SERVER NAME: Input a name that is easy to identify.

DEVICE TYPE: Select the device type you will add. The client system can connect PC-DVR (NV DVR Server system), DVS and EM-DVR. The system now supports the following types of device: PC DVR, NV Series IP/EMDVR, DG 42XX/50XX EMDVR, DG 80XX/90XX EMDVR, DG Series IPC, Dahua Series IP, Sony SNC110/160, ACTi Series IP, Huviron Series IP, Mobotix M12 Series IP, ArecontVision IP, Camtron Series IPC, Axis Series IPC, Vivotek Series IPC and SanYo Series IPC.

Note:
All cameras that support ONVIF can also be supported by our software. You can add them to our software as normal IP cameras. The only difference is you have to select ONVIF IPC as the device name.

IP ADDRESS: Set the IP address of server host.

CONNECT PORT: Set the port which connects to the DVR Server.

LOGIN USER ID / LOGIN PASS: When the client wants to visit the server and the server has used the function of rights management, the Login user ID and Password will be checked. If the user has no right to visit that camera, the connection will be cut down automatically. If the function is not used, the ID and password will not be checked.

IF USE DNS TO GET IP: Select whether to use DNS to get the IP or not. If the server end is the dynamic IP address, users need to use DNS to get the server's IP.

DNS SERVER IP: Set the IP address of the DNS server host.

DNS SERVER PORT: The DNS server host's port, which is provided to connect the DNS software.

MODIFY SERVER: Press the Modify button to modify the server information. Its interface is the same as "Add Connected Server".

DELETE CONNECTED SERVER: Press the Delete button to delete a connected server.

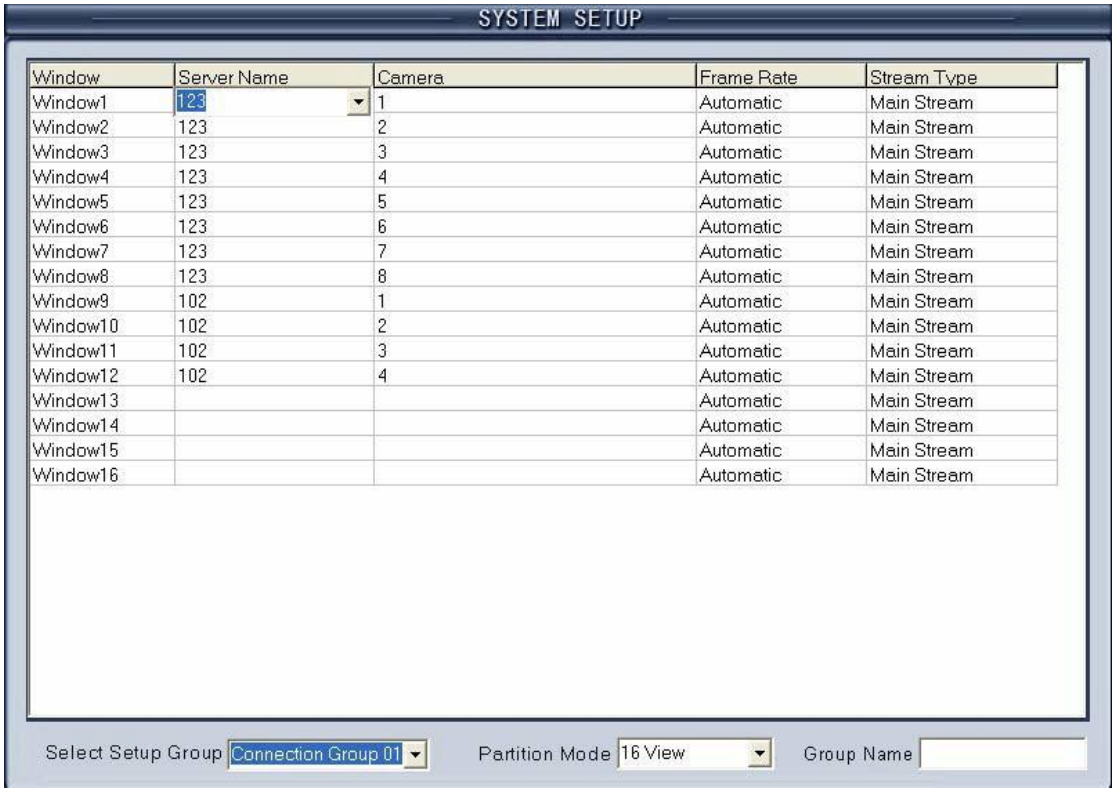
MOTION ALARM PLAY WAVE FILE: Select the wave file which the motion alarm plays.

SENSOR ALARM PLAY WAVE FILE: Select the wave file which the sensor alarm plays.

Note:
When you finish the setups, you should save your changes by pressing the SAVE button before you exit setup.

2.2 Group Set-up

Click the GroupSet button to enter the following window:



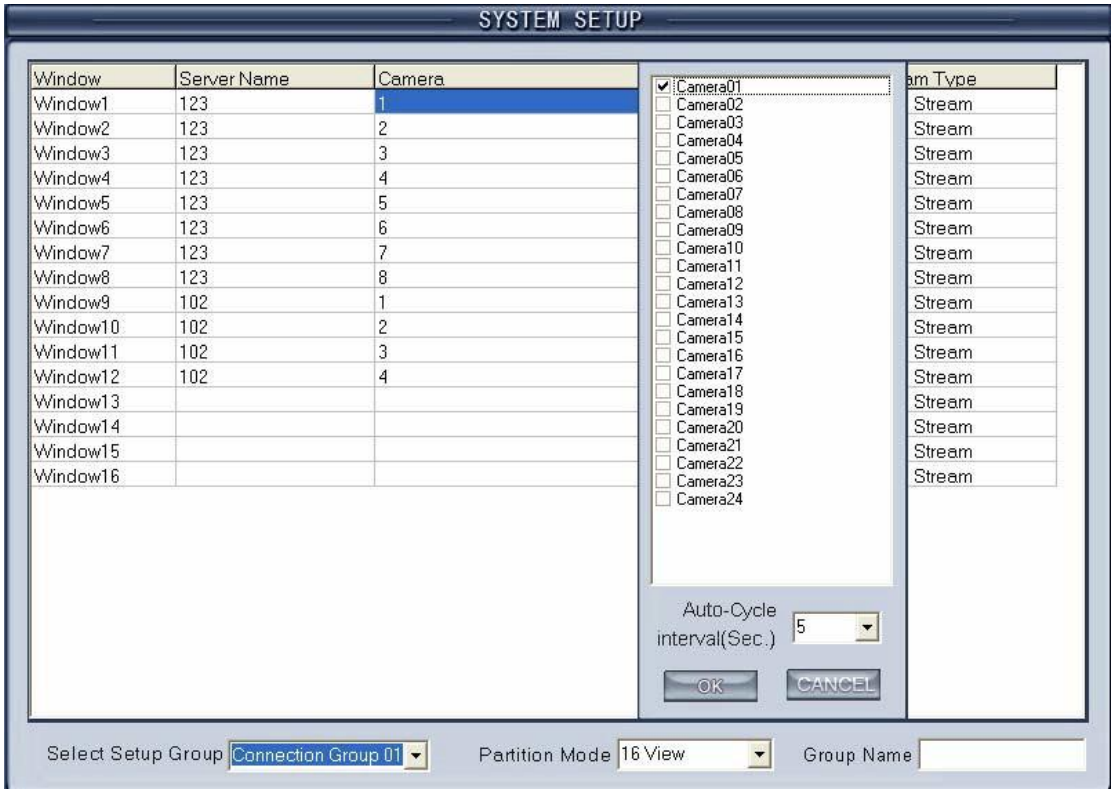
Window	Server Name	Camera	Frame Rate	Stream Type
Window1	123	1	Automatic	Main Stream
Window2	123	2	Automatic	Main Stream
Window3	123	3	Automatic	Main Stream
Window4	123	4	Automatic	Main Stream
Window5	123	5	Automatic	Main Stream
Window6	123	6	Automatic	Main Stream
Window7	123	7	Automatic	Main Stream
Window8	123	8	Automatic	Main Stream
Window9	102	1	Automatic	Main Stream
Window10	102	2	Automatic	Main Stream
Window11	102	3	Automatic	Main Stream
Window12	102	4	Automatic	Main Stream
Window13			Automatic	Main Stream
Window14			Automatic	Main Stream
Window15			Automatic	Main Stream
Window16			Automatic	Main Stream

Choose a group from the drop-down list behind “Select Setup Group” first. There are 18 groups. In every group, you can set 64 connections. Also, you can select the partition for every group from the drop-down list behind “Partition Mode”. Then you can set the group as follows:

IP ADDRESS ALIAS: Select the server in which the camera will be selected to show if it has no sever in the drop-down list, you need to add server in the “Server IP” page.

CAMERA: Select the camera of the server set in **IP ADDRESS ALIAS** to be connected. In one window, you can set one or more camera’s connection(s). If more than one camera shows in one window, you can set cycle interval time.

You can switch them by pressing the buttons Stop Cycle and Restore Cycle in the Main interface.



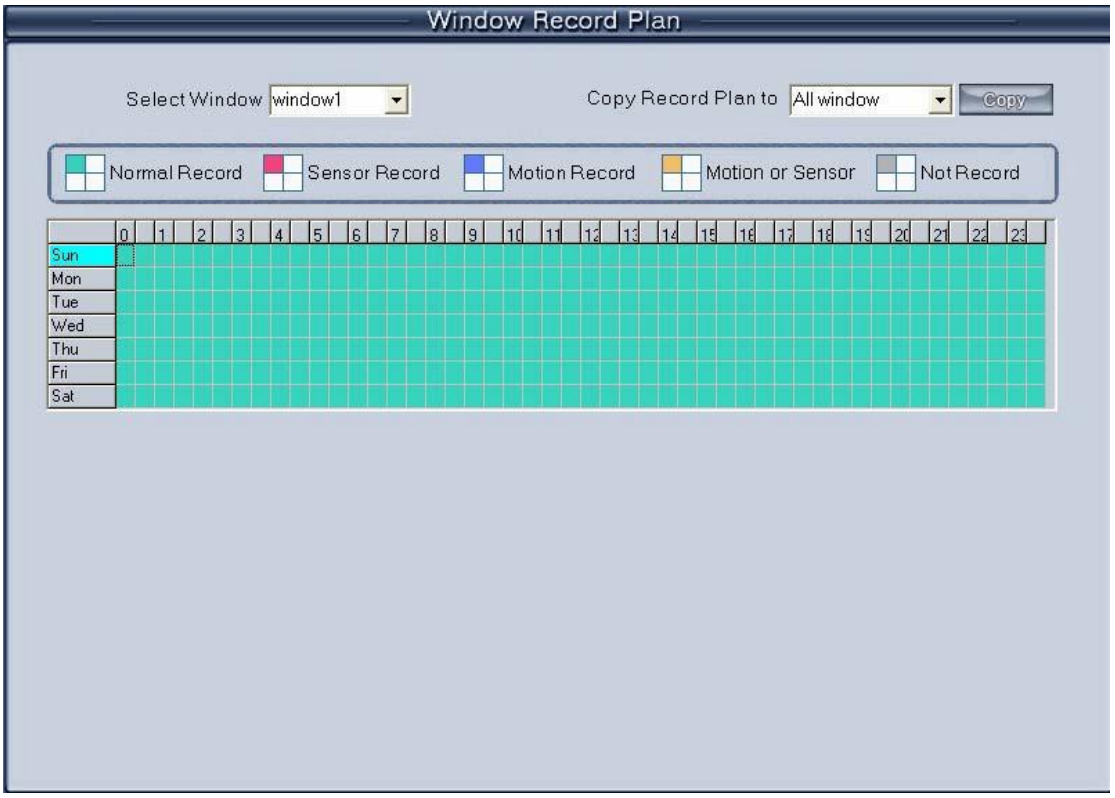
FRAME RATE: There are three options: Real-time, Auto and 1fps.

- **Real-time:** If it is selected, the server will send all compacted information to the client. When the client gets this information, it will play it. The continuality is good in this way but it consumes too much CPU space. If there is no information lost when compacting and sending, the playing will be real-time.
- **Auto:** The difference from Real-time is that when the client gets the information, he will cut some information and then play it. It consumes less CPU space. But if you click any camera, the system will adjust the frame rate to Real-time automatically.
- **1fps:** It means to break down the information in the server. Only one frame of important information is sent to the client every second. It consumes little CPU space and network. And if you click any camera, the system will adjust the frame rate to Real-time automatically when there is enough network space. (NOTE: This selection is only effective on PC-DVR).

STREAM TYPE: Select the stream type main channel or sub-channel for the current camera.

2.3 Record Set-up

Click RecordSet to enter the record setup interface.



SELECT WINDOW: Select the window you want to set.

RECORD TYPE: Set the type of recording, including *Normal Record*, *Sensor Record*, *Motion Record*, *Motion or Sensor Record* and *Not Record*. You can set record type as follows:

First, press the type button that you want to set; then select the record time by pressing the grid (delegate half an hour in a day) or left-click the mouse and drag for an area. If you want to set the same record status every half hour every day, you may double-click the left up of the chart.

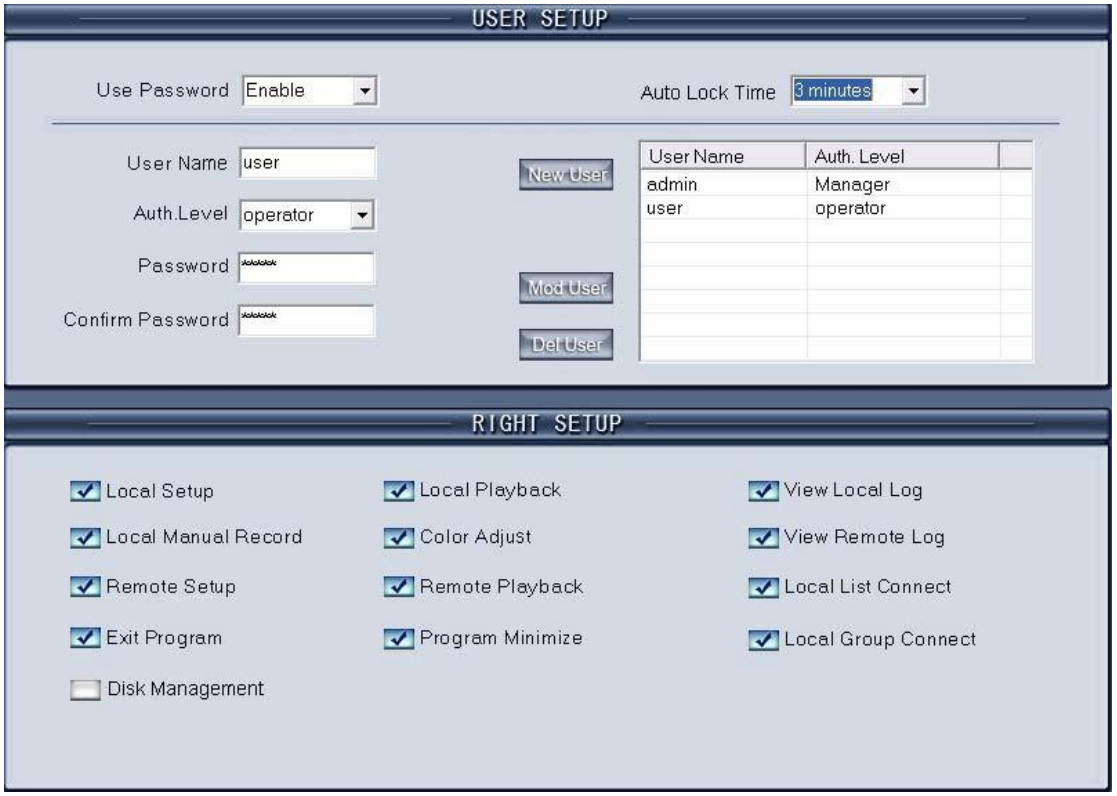
When you finish the setup, the grid will display the corresponding color of the record type.

Green: Normal Record
Red: Sensor Record
Blue: Motion Record
Yellow: Motion or Sensor Record
Gray: Not Record

COPY RECORD PLAN YO: Copy the setup to any other window or all windows.

2.4 Right Setup

Click the Right Set button to set user right.



2.4.1 User Setup

ADD USER/DELETE USER: Click the Add User / Del User icons to add /delete users for the Client. After that you can edit the information for the user to be added.

SELECT USER ID: Select a user that has existed in the system to be modified from the drop-down list.

USE PASSWORD MANAGEMENT: Select a solution to determine if enable user password validation. When you select enable, when the user logs in, the password will be needed.

USER ID: Input the new User ID in this box when adding a new user to system.

SELECT USER ID: This selection is unavailable.

PASSWORD: Set new user's and selected user's passwords.

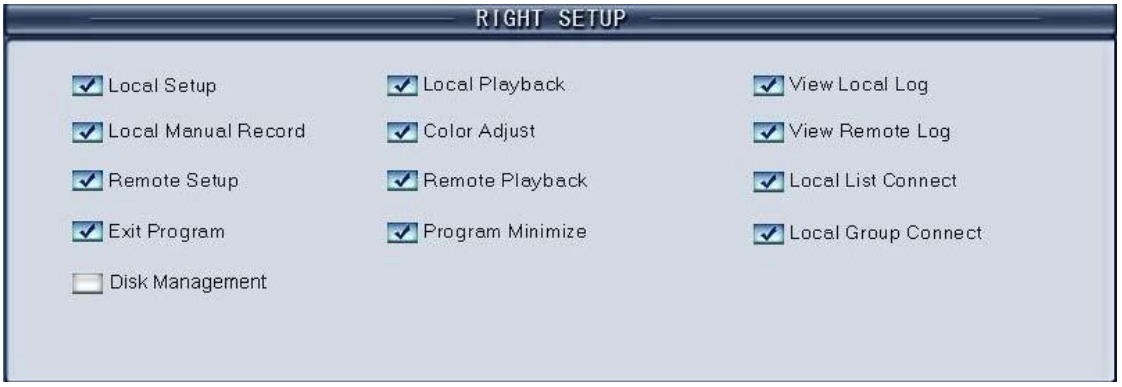
AUTH. LEVEL: Select user type. When you select "Admin" in **SELECT USER ID**, this selection is unavailable.

CONFIRM PASSORD: Confirm password again.

2.4.2 Right Setup

You can set the user management in this window after you input the user name and password, and you will have corresponding rights with your name. Choose a user and distribute the corresponding right.

When the manager doesn't want some operators to manage the disk, he should not check this rights for those users. For example, "Admin" doesn't want "user" to own the right, he should select "user" first, and click "Modify", and then, check the "V" in front of "Disk Management".



After set, click the

button to save the information.

Chapter 3 Local Search

3.1 Main Interface

Select ***Local Playback*** to enter local search interface as below:

3.2 Partition Mode

Press the button to select Partition Mode. There are 1, 4, 9 and 16 partition modes. In the server end the user can only connect 16 channels simultaneously. When the connected channels exceed the limit, system will pop-up information to indicate it.

3.3 Playback

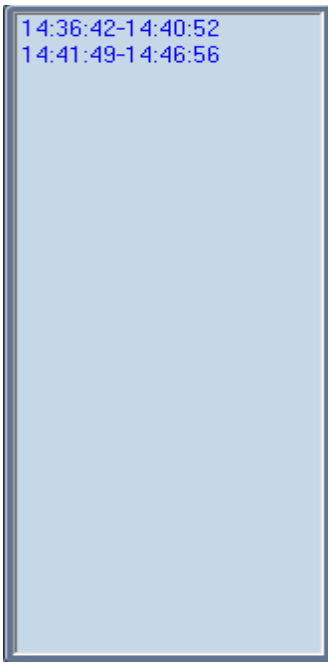
3.3.1 Select Date

Select one window (the first one in default), and then click the

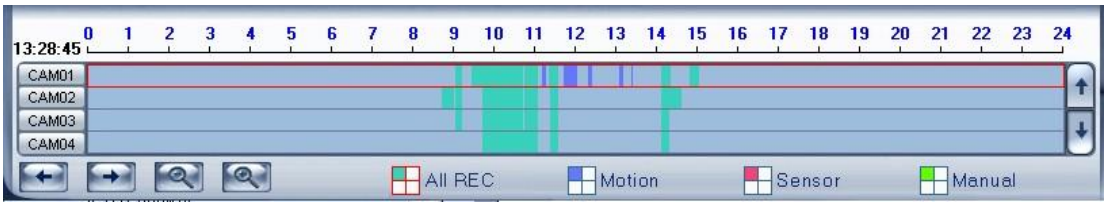
button to show the date.

The blue date contains recorded data. The green date is the current date. The gray date signifies no data. Only the blue ones can be selected, and when they are selected the camera window will appear automatically to show which cameras have recorded data.

Click the or to change month and year of search data.

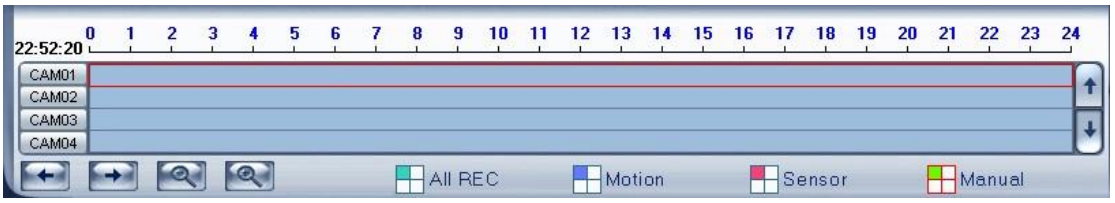


3.3.2 Select Record Type



Press the icon before “Motion” when you want to playback motion recording. Others are the same.

When there is no record data of the selected record type, the below picture will be shown.



3.3.3 Select Camera

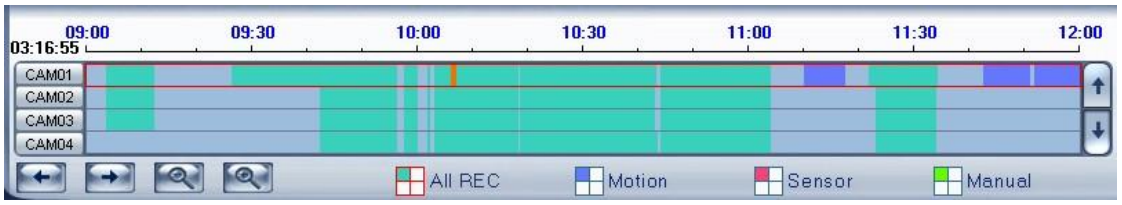
After selecting the date the system will show the camera state of the corresponding day, or click the button directly to show the camera’s state of the current day. The number button with navy blue means this channel has recorded data. By pressing it directly on the numerical panel, the DVR system will play back the recorded data from the first file.

3.3.4 Select File

After selecting the camera to play, the user can click the button to show all the files of this camera.

By default, the system will play back video files from the first one. In this screen you can change the files you want to play by clicking it directly.

The camera list below the window shows the recorded data of the day you select. Double click any time with recorded data; a red mark will be there. Then use the to enlarge the time bar, so that you can select an exact time you want to playback.

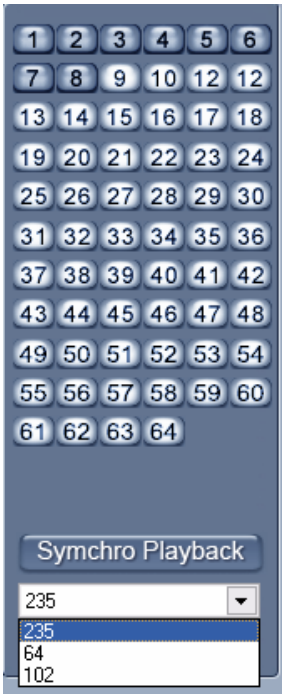


When there is too much recorded data, you can use the to select.

Press the or to view the record data of other cameras.

The red bar shows the exact time when system is playing back now.

Note:
When you check ***Filter by Server*** in the Date Select panel, there will be a server list in the Camera Select panel. Select one server to search its recorded data.



Also, a user can click the

button to show all the files of this camera.

3.4 Play File and Related Operations

3.4.1 Play File

Press the button to open all playback windows in turns according to the order of the cameras.

Note:
If you press this button as soon as you enter the playback interface, all of the cameras will be played back from the beginning of this day when there is recorded data. For example, there is recorded data from 8:00 AM to all cameras, then, they will be played back from 8:00 AM. If you select a point of time on the time bar and then press this button, then, all the cameras will be played back from that time.

Press the button to close all playback windows.

Click the

button to synchronize all playback channels time.

Last frame, Start, Pause, Stop and Next frame.

First frame of that day, previous minute, next minute and last frame of that day.

Image zooms out: Press this button, single click the left mouse button on an image. A quarter of the image will be enlarged. Single click right mouse button on the image, it will resume.

Adjust the voice: Click the button to clear the voice.

Adjust the playing speed: Click the button to resume the normal playing speed.

Note:
It is not suggested that in multi-channel (more than 10 channels) you record and playback constantly unless your PC has a wonderful configuration, because the data throughout HDD is huge. Multi-channel search in client and server are the same, except for their paths. In client, there are local and LAN searches. In LAN search, it searches among the record data in the local network of server.

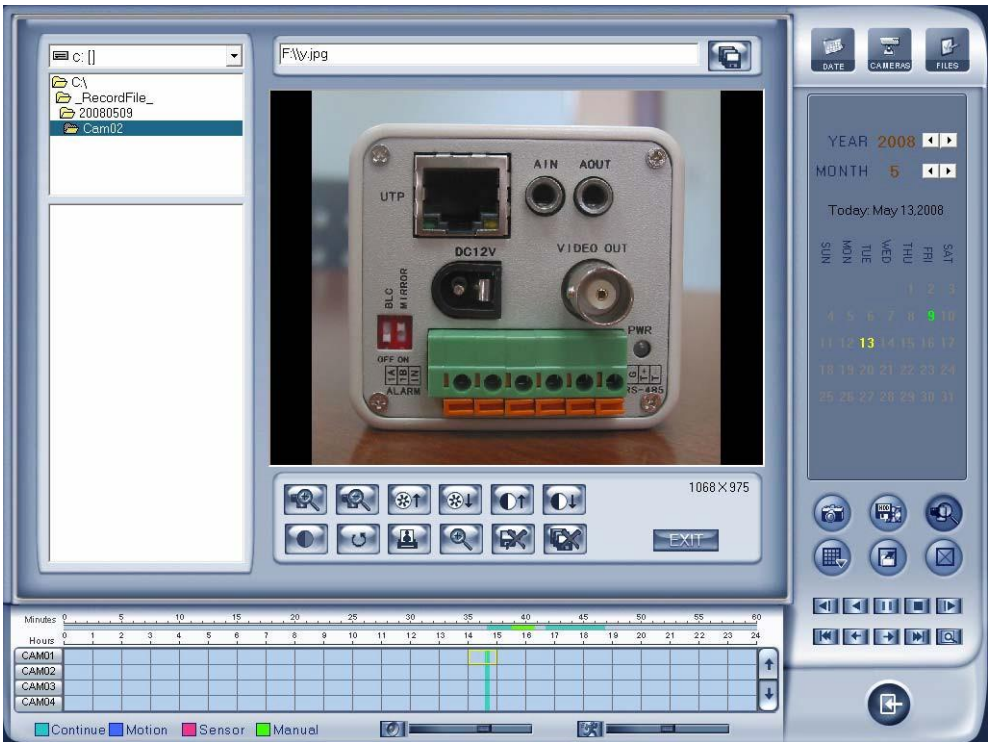
3.4.2 Capture Pictures

Click the capture button to capture a display picture. When one is captured, there will display a dialog interface and you can change the file name. After you press confirmation, the system will save the picture in default path: System volume\Grab\search.

Note:
The size of the image is that of the playing window.

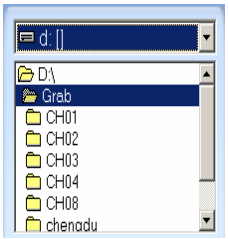
3.4.3 Searched Capture Pictures

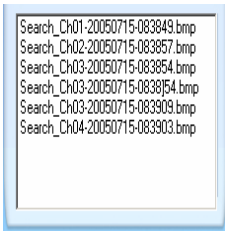
Click the to enter the search window.



1. Select Pictures from Directory and File List

You can select a captured picture from the directory list and file list in local disk. By default, the directory is: System Volume\Grab\Search. After you select the path the file name will show in the top of the window.





2. Related Operations

After you edit the picture you can save the picture in a save path as you like.

Function buttons of picture disposal.

When the result of disposal is not good click it to the default.

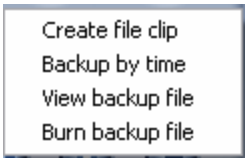
Print picture. When the image is wider than 400 pixels, it will be printed smaller. On the other hand, if it is less than 400 pixels, it will be printed larger.

When it's bright, with the mouse moving, part of the picture will be enlarged.

Delete current file or delete all files.

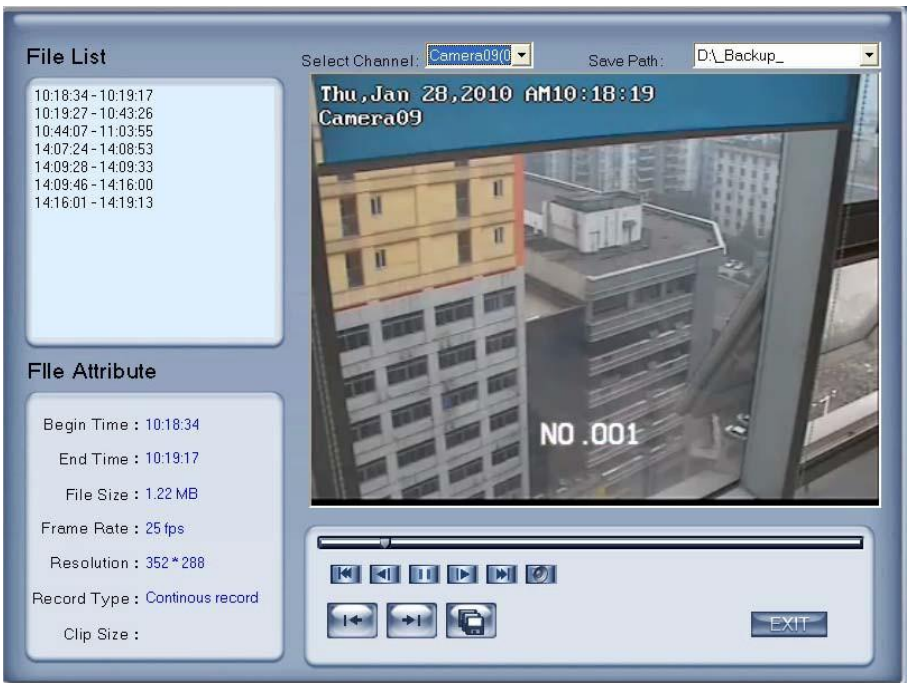
3.5 Backup

Click the button. There are follow 4 items to select.



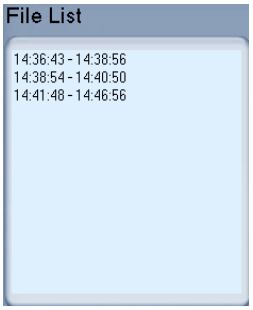
3.5.1 Create File Clip

Click ***Create File Clip*** to create file clip.



1. Select Channel and Path
Select channel and path of the backup file on the top of interface.

2. File List and Attribute
Select a file and double-click it to play and its attribute will display below the list, including begin time, end time, file size, resolution, frame rate etc.



3. Play File and Related Operations
   (1) Play Control
   (2)

Press and drag the slider button to control the player time.

(3) Beginning and Stop Time Setup

Press to set the beginning time and end time of the file. The file attribute on the left will show the size of the file.

(4) Save File

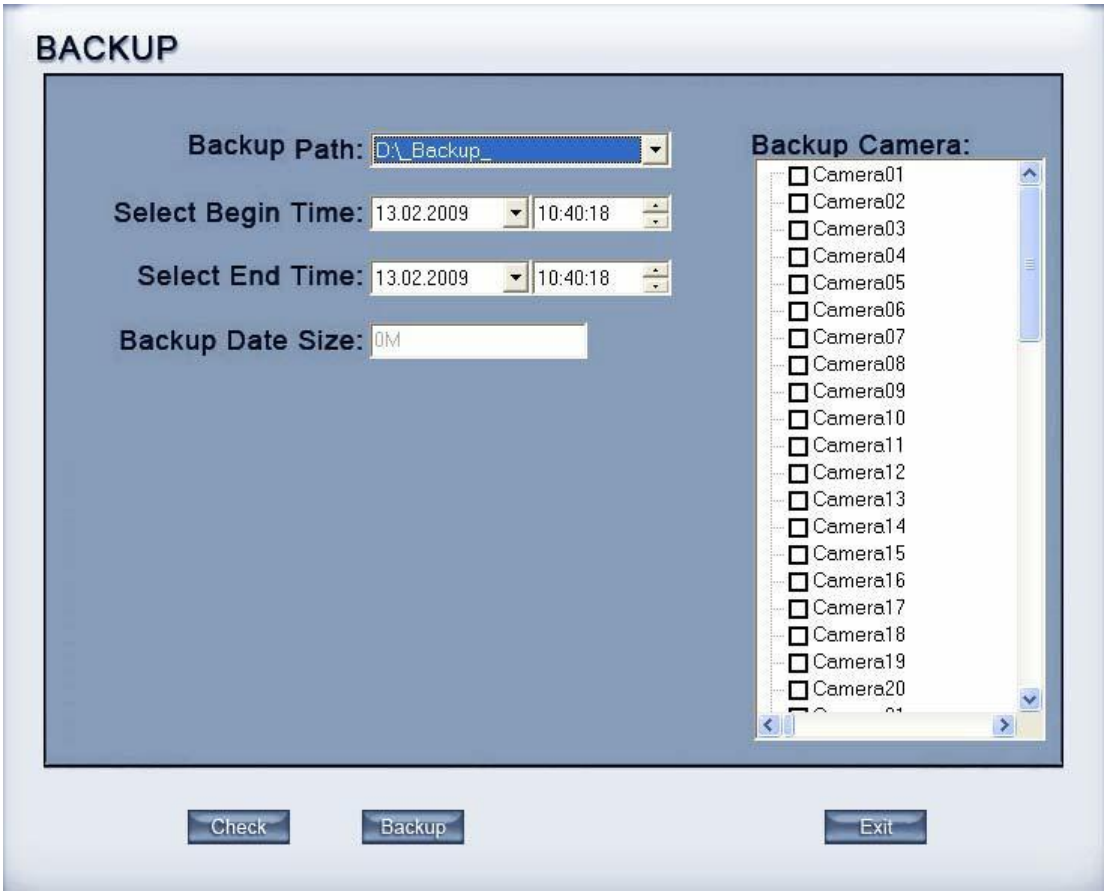
Press to ensure the beginning and end of the file. Click it to save the file.

(5) Voice Control

Click to control voice, press it to clear voice.

3.5.2 Backup by Time

Click ***Backup by time*** to backup by time.



1. Save Path
Select path for the backup file, User can backup record file to CD.

2. Backup Camera
Select the backup camera. User can select more than one camera at once.

3. Select Begin/End Time
Select the backup files' begin time and end time.

4. Backup Data Size
Show the size of the backup file. If the user backs up a record file to a CD directly, the data size should not be more than 650M.

Note:
If a user backs up record files to a CD directly, the system disk volume's (C volume in general) free space should not be less than twice of the backup data size. Because the system volume will be used as a buffer area when burning the CD. For example, if the backup data size is 450M, the system volume of free space should be no more than 900M.

The process of burning a CD:
1) Select CD-ROM as the backup path, and select the camera and time;
2) Check the backup file value;
3) Backup the file to the temporary file in the last volume if there is enough free space. Otherwise, write backup file to the last second volume;
4) Write back up file to buffer;
5) Write CD;
6) Delete buffer and temporary file.

3.5.3 View Backup File

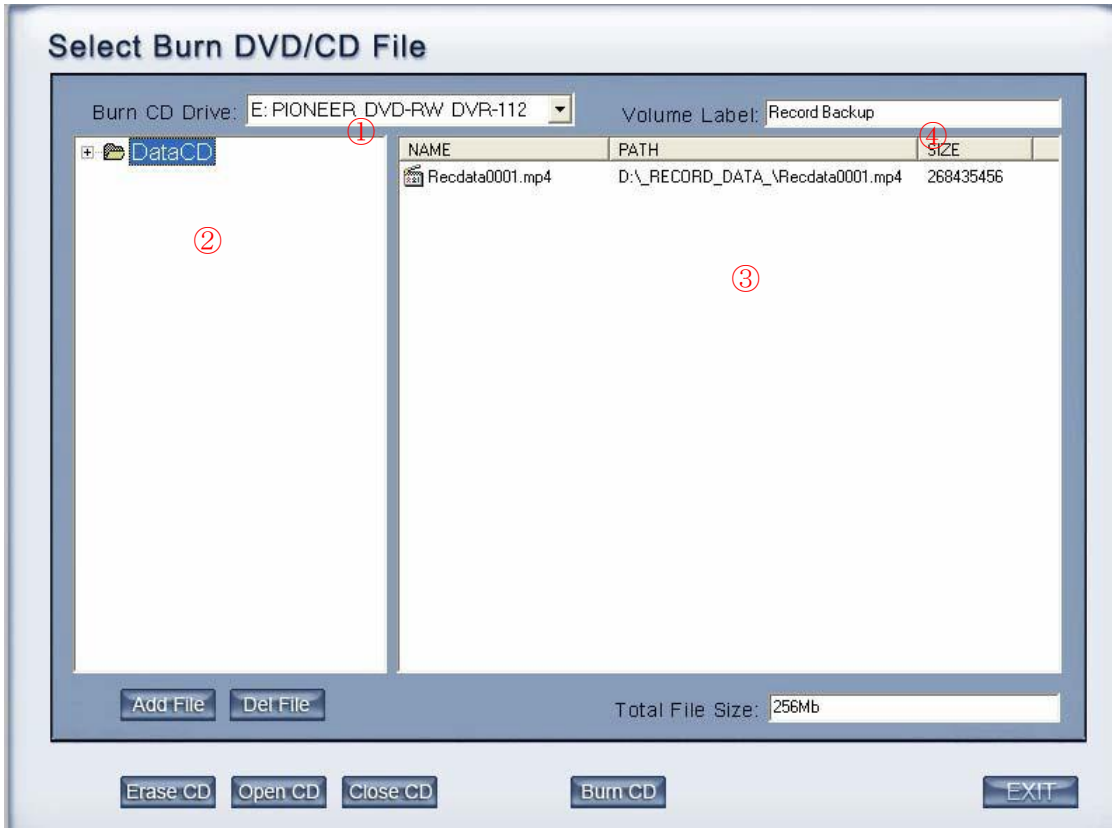
Press

to view backup files.

Select channel and path of the backup file in local disk on the top of interface.

3.5.4 Burn CD

Press the button to burn a CD.



Area ①: File directory.

Area ②: File list.

Area ③: The File directory and list of will be burned to CD.

Area ④: Create a new directory in area ③.

Add File: Add selected file from area ② to area ③.

Del File: Delete selected file from area ③.

BURN CD DRIVE: Select CD-ROM driver.

VOLUME LABEL: Set the CD's label.

TOTAL FIEL SIZE: Show the size of all files will be burned to CD.

Burn CD: When you finish your setup, click this button will write file to CD.

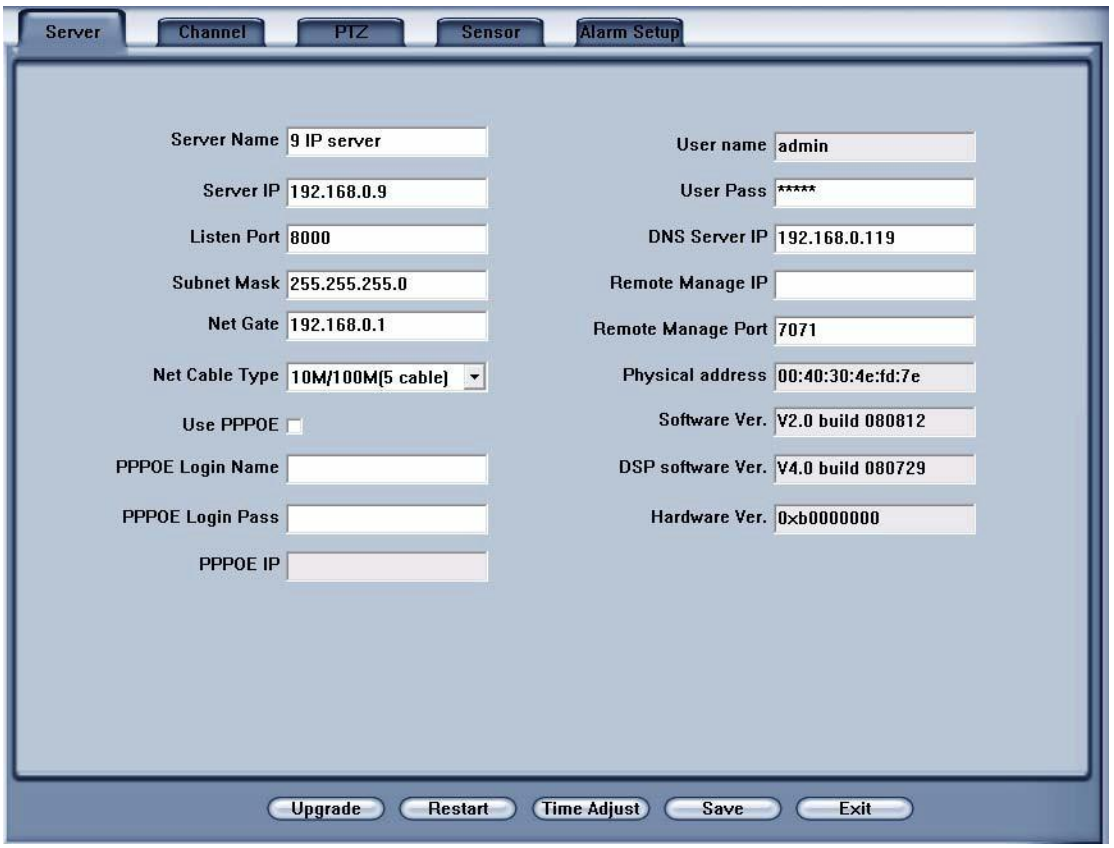
Chapter 4 Remote Set-up

4.1 For PC-DVR

Remote setup for PC-DVR is nearly the same as local setup in DVR. For details, please refer to our ***iPoint DVR User Manual***.

4.2 For DVS and EM-DVR

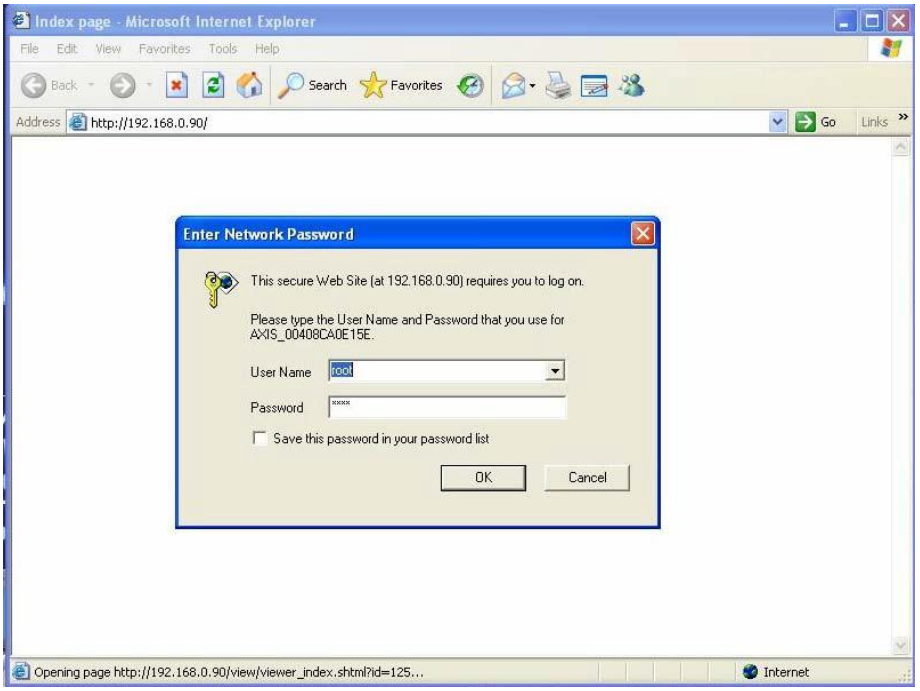
The remote setup interface of NV Series IP devices is as below:

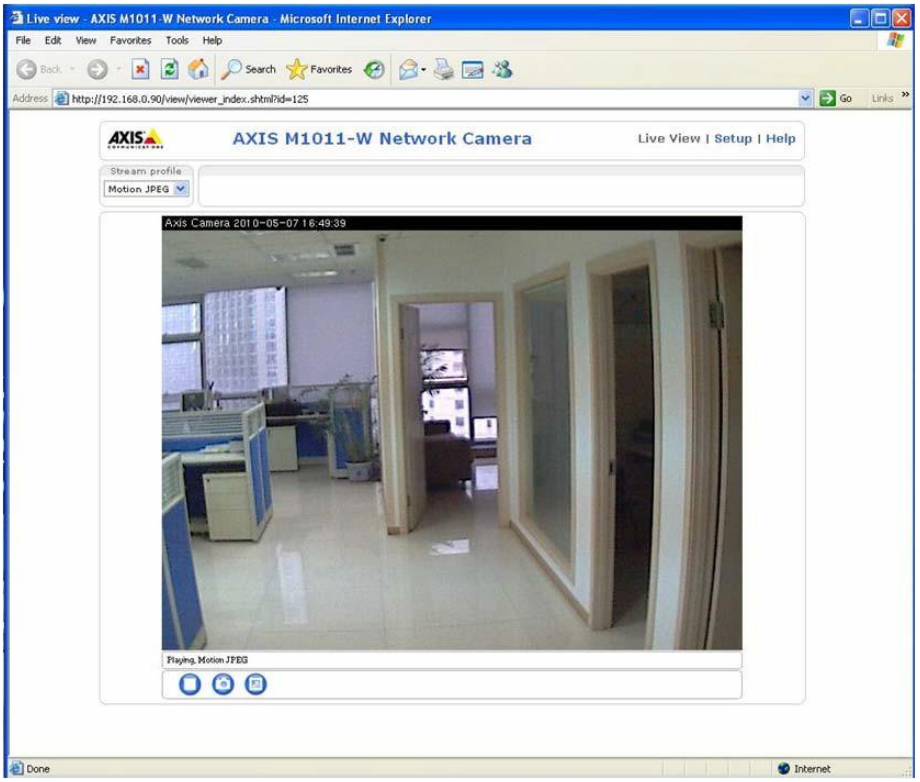


For DG Series EM-DVR, the interfaces are not exactly the same as NV Series. Remote setup for DG Series EM-DVR includes Server, Channel, Record, PTZ, Sensor, Alarm, and User.

But the ways of setup are nearly the same. For details, please refer to our DG Series EM-DVR manual.

For other series IP cameras, such as DG Series IP, Sony SNC110/160, ACTi Series IP, Huviron Series IP, Mobotix M12 Series IP, ArecontVision IP, Camtron Series IPC, Axis Series IPC, Vivotek Series IPC and SanYo Series IPC, you will enter the IE interface automatically when you press "Remote Setup". You have to install ActiveX too.





4.2.1 Function Buttons

There are 5 buttons in each page. They are: Upgrade; Restart; Time; Adjustment; Save and Exit.

Upgrade The system can upgrade to the server remotely. Click this button, and select the right file.

Restart Some settings will only come into effect after device reboots.

Time Adjupt Adjust date and time of DVS or EMDVR. The new date and time will synchronize with the NVR client computer.

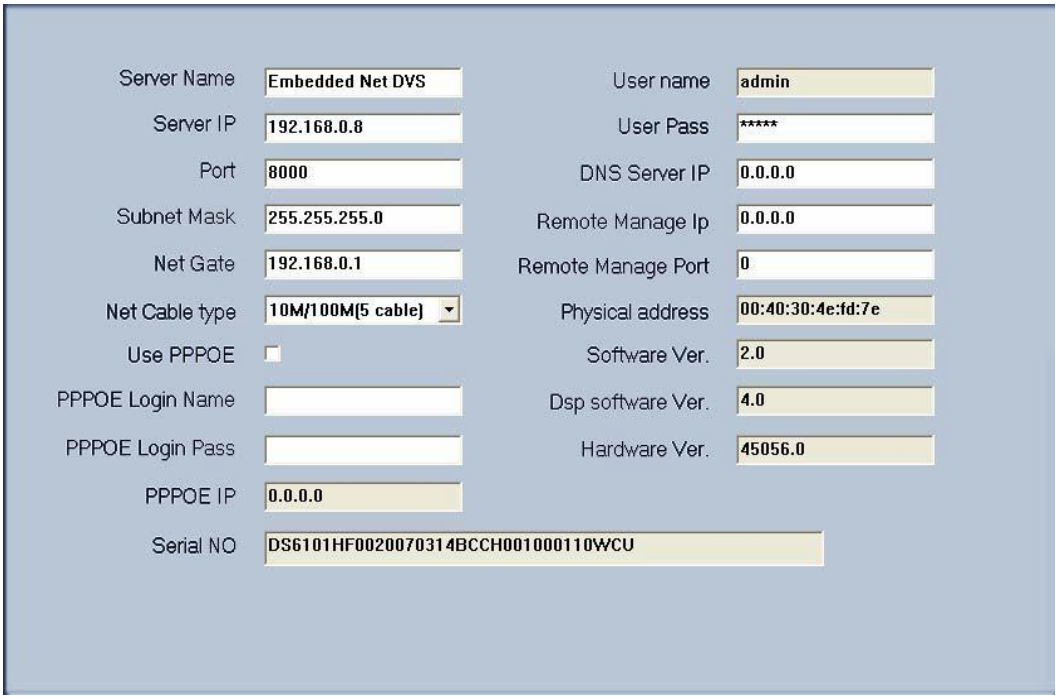
Save After setup is finished, click this button to save the setup.

Exit Exit setup.

Remote setup for DVS includes Server, Channel, PTZ, Sensor and Alarm.

4.2.2 Server Setup

Press the Server button to set server parameters remotely:



In the server window, some blank backgrounds are gray. Those parameters are read from the foreside server, you can't modify them. Other blanks whose background is white, you can set them remotely.

SERVER NAME: Enter the name description for easy identification. This name delegates the foreside server. If use DNS to get IP, this name will be used.

IP CONFIGURATION AND RELATED

SERVER IP

PORT
SUBNET MASK
NET GATE
NET CABLE TYPE

These are network configurations. You can set LAN or Internet IP according to your needs.

IF USE PPPOE
PPPOE LOGIN NAME
PPPOE LOGIN PASS

If the system uses PPPOE to connect to the web, please select it and input the PPPOE login ID and password.

USER PASS: Set the user password of DVS remotely. After that operation you should change the Login Pass to corresponding value in Add / Modify server. Otherwise, you can't connect the DVS correctly.

DNS SERVER IP: If you use DNS, input the DNS host IP address.

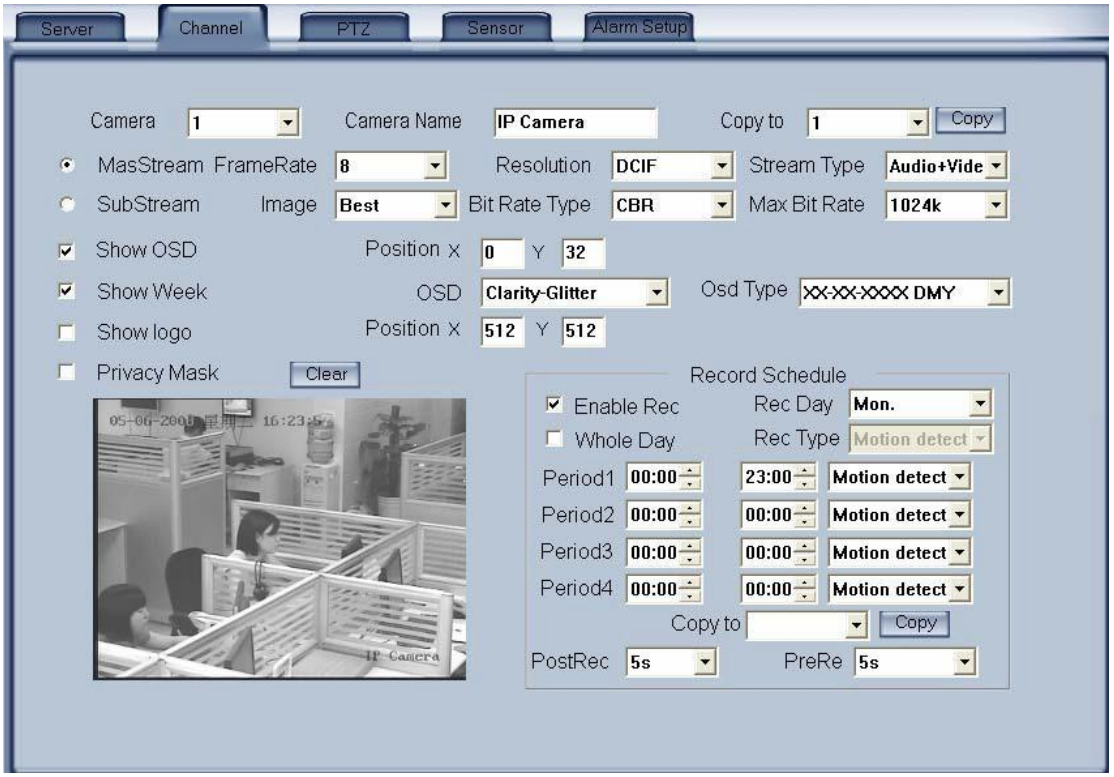
REMOTE MANAGE

REMOTE MANAGE IP
REMOTE MANAGE PORT

Set the IP address and port of the host server who will receive the message upload from the foreside server.

4.2.3 Channel Setup

Press the Channel button to set channel parameters.

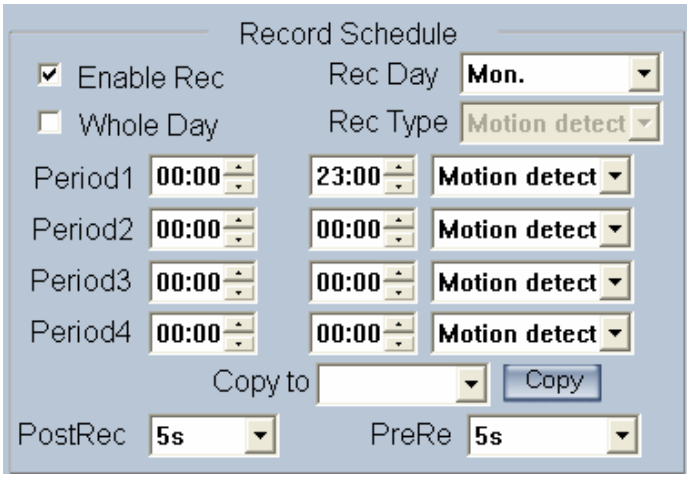


This section contains the parameters to designate a name for every camera connected, to enable or disable show LOGO and OSD, and to set display type of OSD & LOGO as well as record resolution, record type, record quality and frame rate, etc.

CAMERA: Select the camera to be set from the drop-down list.
CAMERA NAME: Enter a name description for easy identification.
FRAME RATE: Select the record rate of camera from drop-down list.
MAINSTREAM / SUB-STREAM: Select Mainstream or Sub-Stream for the current cameras.
RESOLUTION: Set the resolution for which the video files will be recorded. Choices are DCIF, CIF, QCIF, 2CIF and 4CIF. The higher the resolution, the more disk space is needed.
STREAM TYPE: Select the video and audio or only video record.
IMAGE: Set the quality of the image to be recorded. Select from worst / worse / normal / good / best.
BIT RATE TYPE: Select bit rate type from Variable Bit Rate (VBR) and Fixed Bit Rate (FBR) record:

VBR range= Poorest, Poor, Medium, Good, Best.
FBR range = 45 Megabytes/Hour to 400 Megabytes/Hour.

MAX BIT RATE: Select the maximum bit rate for Variable Bit Rate (VBR) record.
SLOW / LOGO / OSD / WEEK: If you check this box, the system will show corresponding information on the screen.
POSITION: Set the position of OSD or Logo by entering the X and Y coordinate directly.
OSD: Set the display attribute of the OSD & LOGO. There are four types of display modes: Clarity-Glitter / Clarity-Not Glitter / Not Clarity-Glitter / Not Clarity-Not Glitter.
OSD TYPE: Select the type of OSD for the week.
PRIVACY MASK: You can check this box to set the privacy mask on the below image directly, and you can clear some privacy masks by pressing the Clear button.
RECORD SCHEDULE: You can set record schedule in following chart.



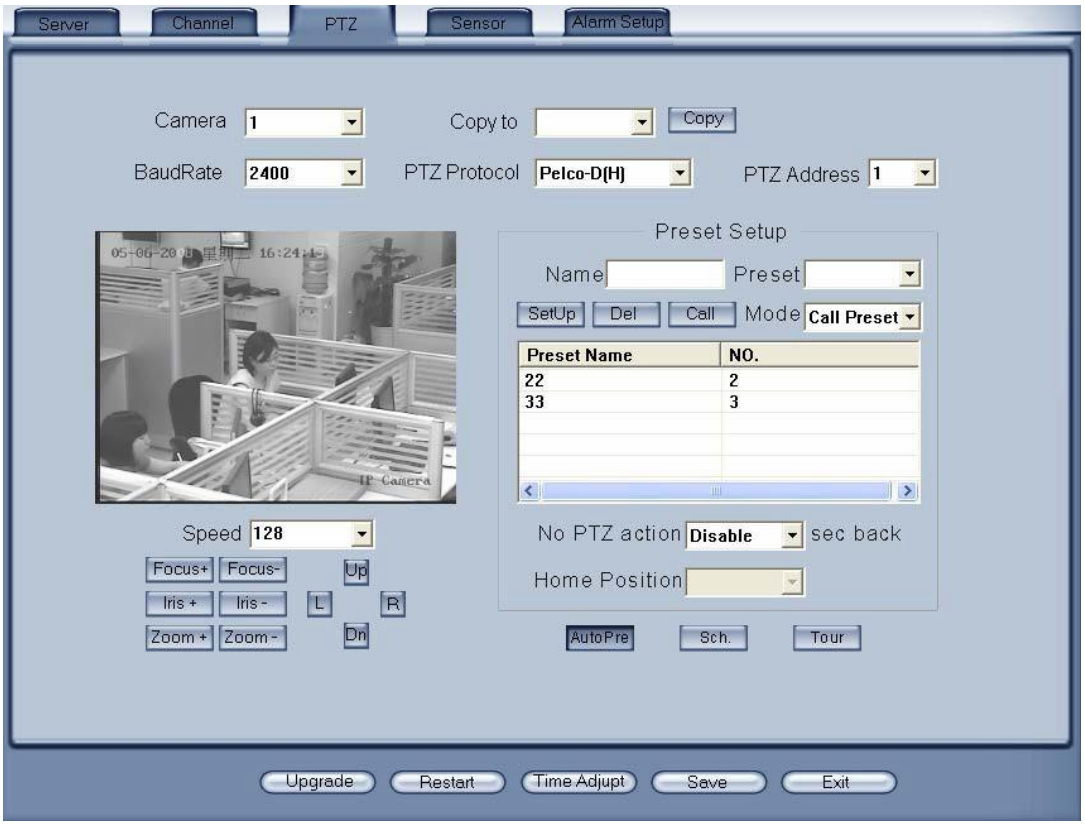
Note:
This record schedule is only available to EM-DVR. There are 4 time segments every day. Every segment has a start time, end time and record type. The time segment is set in sequence; every segment can't be overlapped, included or skipped with any other.

COPY TO: After finishing one channel, if you want to set another channels' configuration as the same as this camera, you can select channel number from the drop-down list, and press the Copy button.

Set the time to post- or pre- the record.

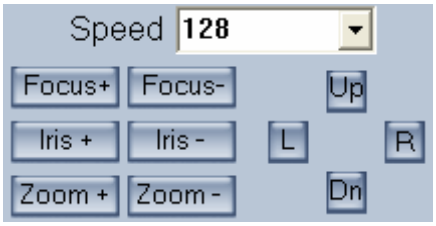
4.2.4 PTZ Control

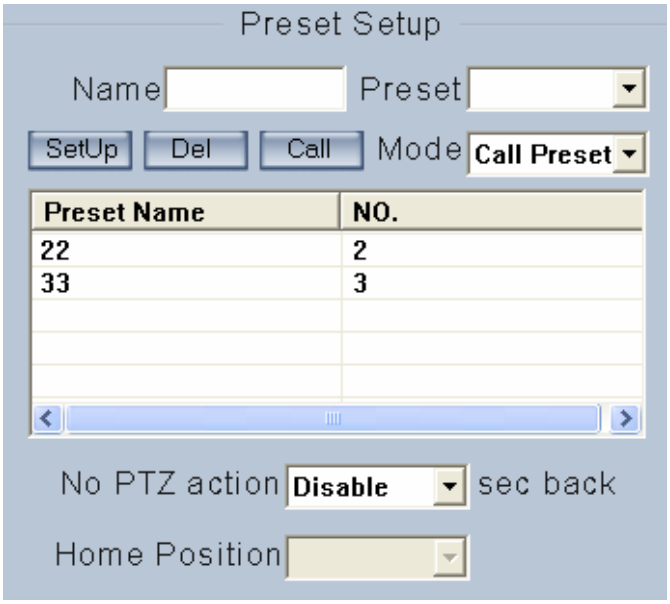
Press the PTZ button to set PTZ.



In this screen, you can define the PTZ protocol and set the Preset Position as well as the plan to execute them automatically.

CAMERA Select the camera to be set from the drop-down list.
BAUD RATE: Set baud rate according to the PTZ protocol from the drop-down list.
PTZ PROTOCOL: Select the communication protocol for the PTZ camera from the drop-down list.
COPY TO: After finishing one channel, if you want to set any other channels' configuration as the same as this camera, you can select that channel number from the drop-down list, and press the Copy button.
PTZ ADDRESS: Set the address of the decoder, which must be matched with the value of the dipswitch in the PTZ.
SPEED: Set the speed of the PTZ.
PRESET POSITION & SCHEDULE SETUP: Define preset position and set time to call preset position automatically. System can add and delete plan time.





NAME: Set the name for the current preset.

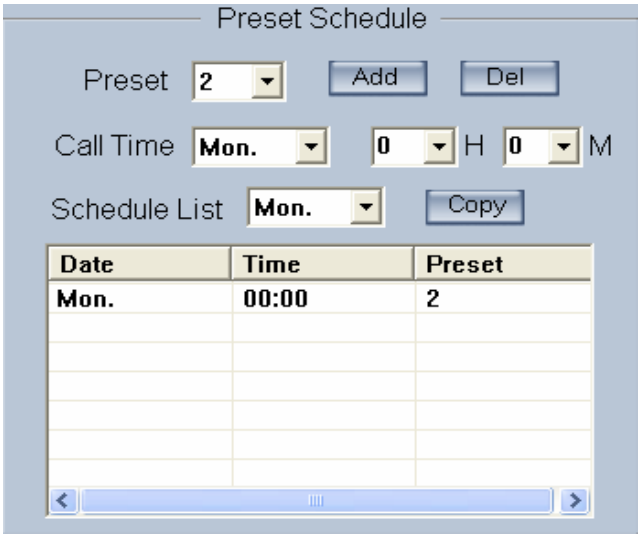
PRESET: Set the preset number for the current camera.

Setup the preset by current configuration.

Delete the finished Preset.

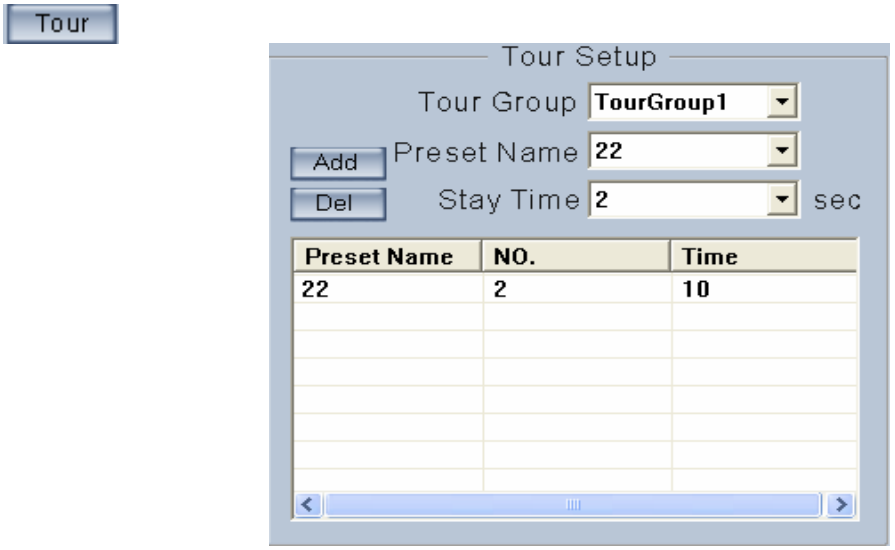
Call the Preset if the mode is Call Preset. The mode is save preset. You should save the preset and not call the preset.

Set disable or how long the puts will come back to the home position when there is no PTZ action.



PRESET: It can add the preset into the Preset Schedule, the preset set can be completed in the Auto Preset.

CALL TIME / SCHEDULE LIST: Set the time that the preset should be called.



Tour Group

Add the Preset cameras into the Tour Group and set the Stay Time for one tour group.

4.2.5 Sensor Setup

Press the button to set sensor parameters.

SENSOR NO: Select one sensor to be set.

SENSOR NAME: Enter the name description of the sensor.

TYPE: Select alarm type (sensor type) from "NO" (Normally Open) or "NC" (Normally Closed).

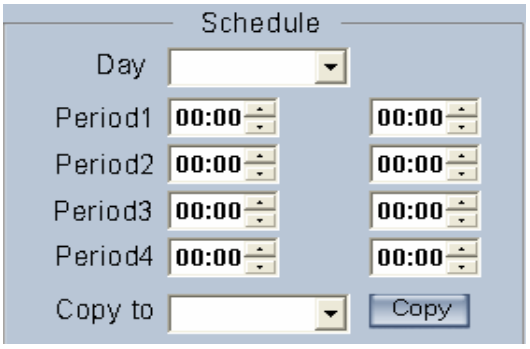
POLICY: By selecting “Sensor Alarm Handling” first, handling policies will be available as follows:

On Screen Warning - Display the alarm information on the monitor.
Audio Warning - Indicate the alarm with voice.
Upload to Center - Update the alarm information to center.
Trigger Alarm Out—Trigger alarm box to output the alarm.

TRIGGER RECORD CAMERA: Set cameras to record triggered by the alarm. You can select one or more channels. When there is alarm input, the cameras will be triggered to record (the record type of the channel is Alarm Record), and the monitor will switch to preview the cameras (warning on monitor is enable).

PRESET: Set the camera that will move to its one preset position when the alarm happened.

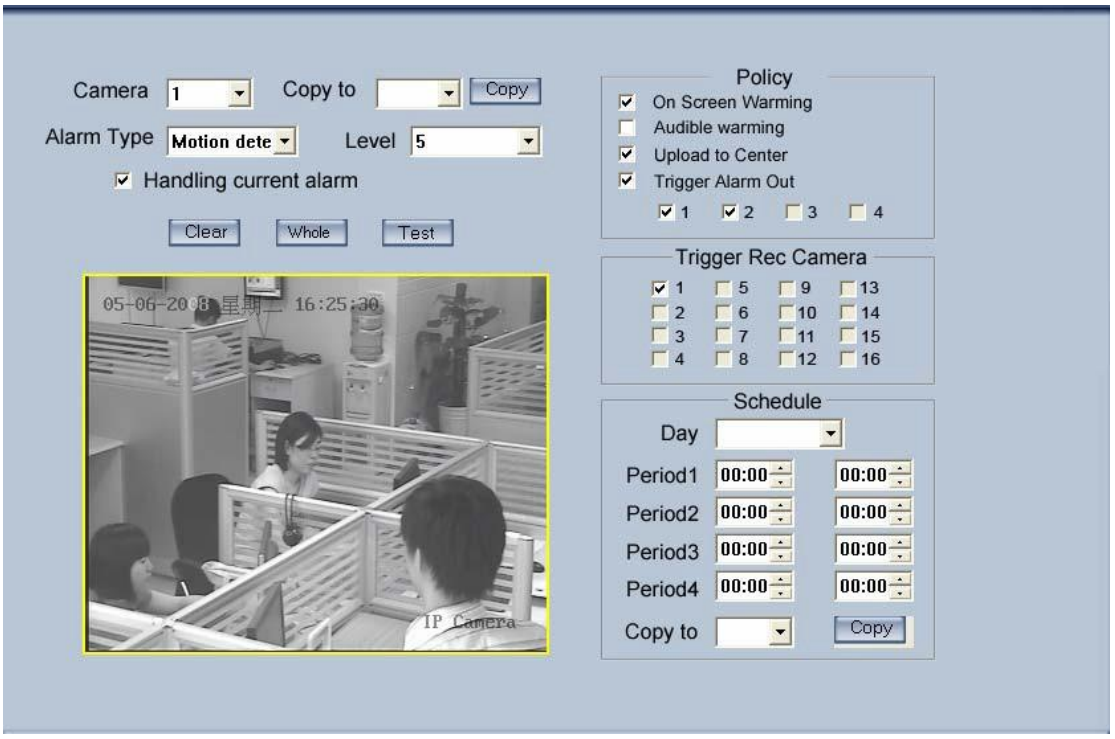
SCHEDULE: Set alarm input precaution time first; then set the time segment according to the sequence. The time of each segment should not overlap the others and no skips are allowed. After the precaution time of a certain day is set, you can copy the parameter to other dates by select a day and press copy button.



COPY TO: After finishing one channel, if you want to set any other channels’ configuration the same as this camera, you can select the channel number from the drop-down list, and press the Copy button.

4.2.6 Alarm Setup

Press the Alarm Setup button to set alarm parameters.



CAMERA: Select a camera to be set from the drop-down list and you can copy the configuration to the other cameras by clicking the copy button.

ALARM TYPE: Select alarm type: Motion detection, Tempering alarm and Video Loss.
LEVEL: Select sensibility levels from 0 (the lowest) to 5 (the highest) for the alarm.

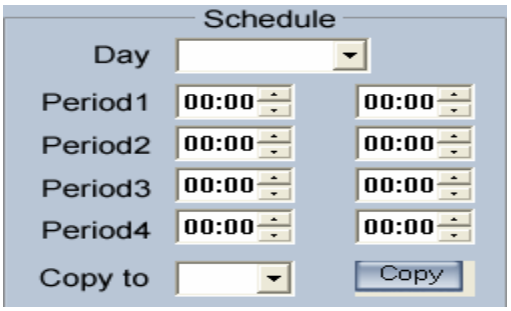
SET MOTION DETECTION AREAS: Left-click the mouse and drag it on the screen to select a motion detect area. You can select the whole area or many areas. Also, you can clear one or the whole area by pressing the button. Clear and test the effect by clicking the test button.

POLICY: Select “Handling Current Alarm” first; handling policies will be available as follows:

On screen warning—Display the alarm information on the monitor.
Audio warning—Indicate the alarm with voice.
Upload to center—Update the alarm information to center.
Trigger alarm out—Trigger alarm box to output the alarm.

TRIGGER RECORD CAMERA: Set cameras to record triggered by the alarm. You can select one or more channels. When there is alarm input, the cameras will be triggered to record (the record type of the channel is Alarm Record), and the monitor will switch to preview the cameras (warning on monitor is enable).

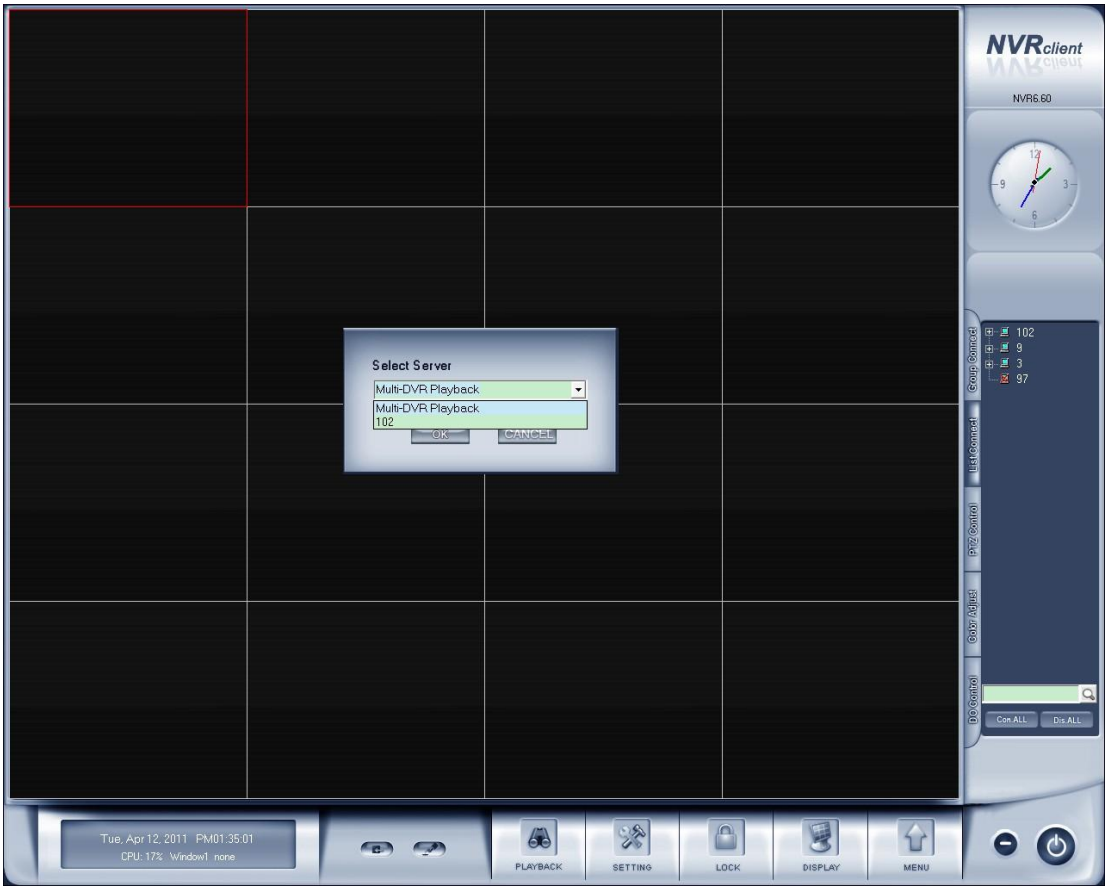
SCHEDULE: Set the alarm input precaution time. Select date first, then set time segment according to the sequence. The time of each segment should not overlap the others and no skips are allowed. After the precaution time of a certain day is set, you can copy the parameter to other dates by select a day and press copy button.



COPY TO: After finishing one channel, if you want to set any other channels' configuration the same as this camera, you can select the channel number from the drop-down list, and press the Copy button.

Chapter 5 Remote Search

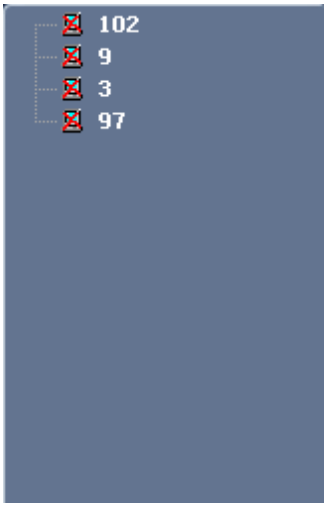
Click the button and this window will pop up. This is a new feature of our NVR V 5.60. It provides multi-DVR playback and PC-DVR playback. The multi-DVR includes recording data from EM-DVR, PC-DVR and DVS; On the contrary, PC-DVR is listed separately.



5.1 Multi-Server Playback

In the multi-DVR playback interface, you will see as below:

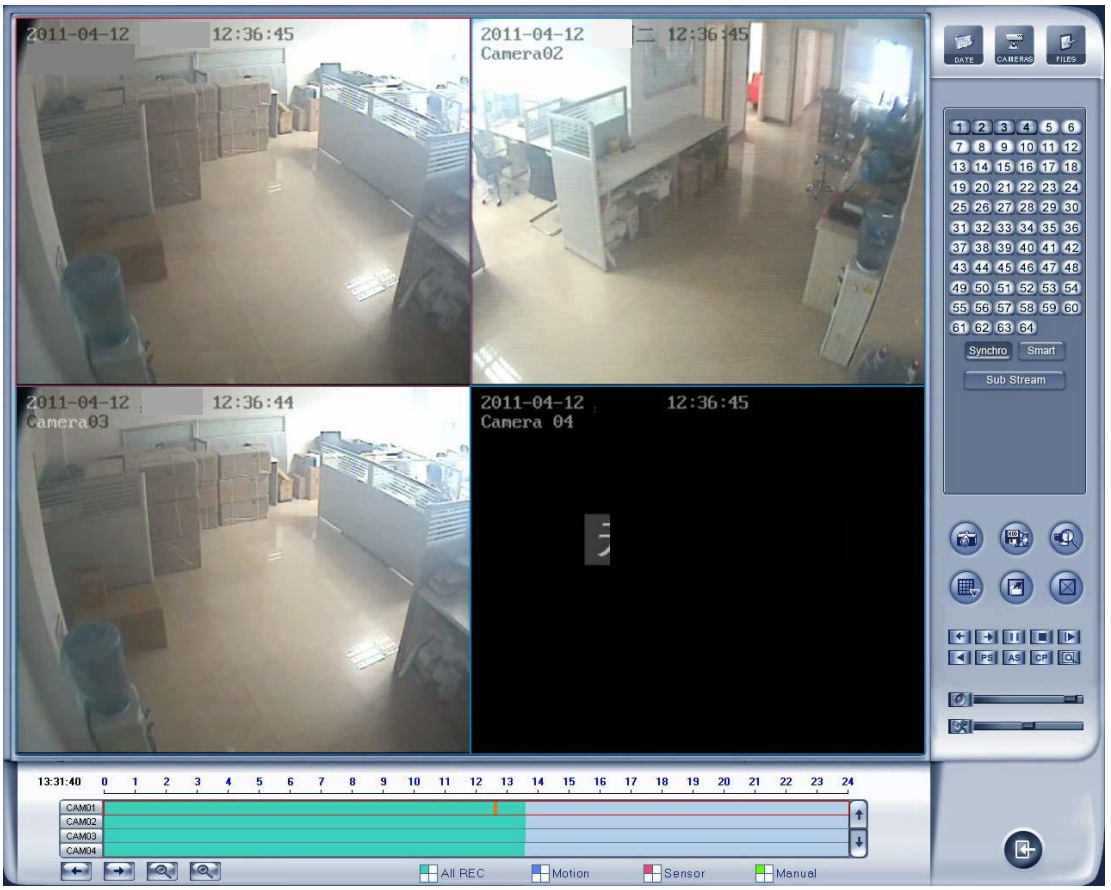
When entering this interface successfully, all devices (including PC-DVR, EM-DVR,DVS with SD card) are not connected (by default). Shown as below:



If you want to connect any device, just double-click the device, and it will connect automatically. Similar for the other devices. For more details about the related operation, please refer to chapters 5.3 to 5.5.

5.2 PC-DVR Playback

If you just want to playback video for a certain PC-DVR, click the button and Select the name of the PC-DVR, you will enter the interface as below:



The related operation is the same as before. For more details, please refer to sections 5.3 to 5.5.

In this playback mode we get several functions that are popular among customers, such as PS, AS and CP.

The two modes of playback can fulfill the different requirements of different customers.

5.3 Steps of Playback

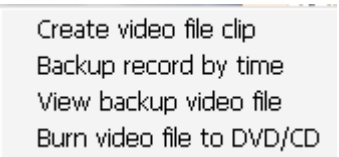
The operations are nearly the same as Local Playback. However, in multi-server playback mode you should double-click the server name in the server list to select one server before you select the date. Also, you can select one camera below the server name to select the server. Otherwise, you will not be able to select the date. And you can't select record type as in Local Playback. The record type icons below the time bar only show which record type you are playing back.

5.4 Play File and Related Operations

All buttons are nearly the same with Local Playback. However, you should not press the button before one server is selected. Please refer to Chapter 3 for details.

5.5 Backup

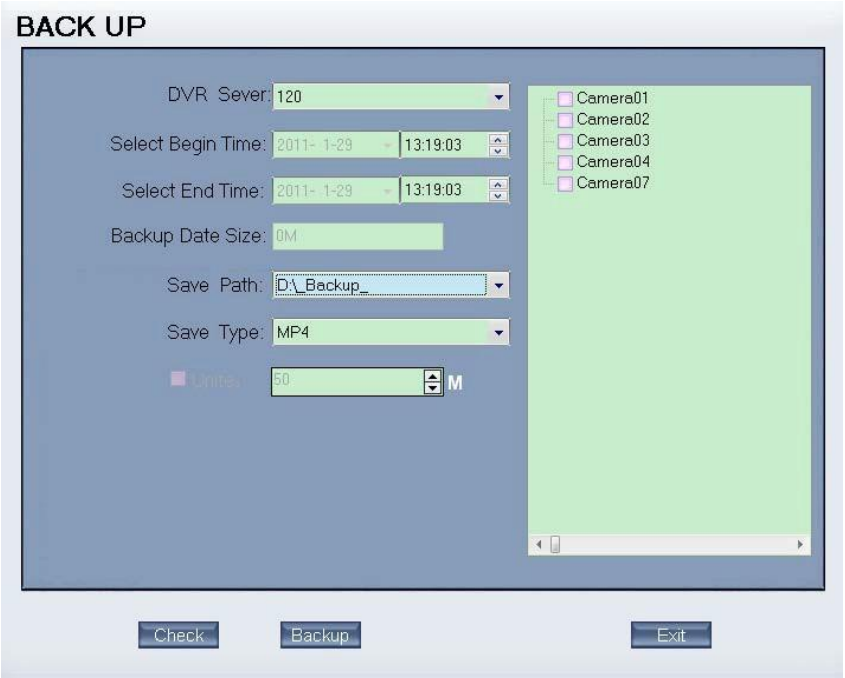
Click the button. There are four items to be selected.



5.5.1 Create File Clip

Please refer to section 3.5.1 for details. The only difference is you should select one server from the drop-down list.

5.5.2 Backup Record by Time



It is nearly the same with 4.5.2 in the iPoint DVR User Manual. The differences are listed below:

You should select one server before backup. “No Change” is named as “MP4”.
“AVI (H.264)” and “MSMPG4” is named as “AVI”.

5.5.3 View Backup Video File

Please refer to section 3.5.3 for details.

5.5.4 Burn Video File to DVD/CD

Please refer to section 3.5.4 for details.

Chapter 6 IE Client

The client user can look through video of the iPoint DVR Client by Internet Explorer. The default web server port is 80. If it is changed to another port, the user should add that port number after the IP address of the iPoint NVR Client. (http://192.168.0.119:1290).

Note:
Web Client is updated from this version. If you can’t download and install ActiveX automatically, you can download webclient.zip manually via clicking “Go to”. Then, the following interface will be shown:

Save and install Web Client on your PC, so that you can install ActiveX successfully at a later date.

6.1 Functions of IE Client

1. Video display and video storage.
2. Audio input.
3. Searching and playback video image locally or remotely.
4. Control PTZ and speed demo remotely.

6.2 Main Interface

When you connect the DVR Client successfully, you should input a valid User ID and password to acquire rights to play video and other operations.

6.2.1 Connect Record

This icon indicates the current connection and the record status:

Gray: Not connected.
Navy Blue: Connected with no record.
Green: Connected with record.

You can change the record status by pressing the corresponding number button or change the status of all connections at the same time by pressing the button.

6.2.2 Partition Mode

You can set the partition mode from the drop-down list on the right side of the main interface. There are 1, 4, 6, 9, 10, and 16 partition modes.

6.2.3 PTZ Control

Most functions of the PTZ control are same as the Client in the PTZ Control Panel.

6.2.4 Local & Remote Search

It will describe in Local Search and Remote Search in detail.

6.2.5 Quit Program

Press the button to shut down the IE Client.

6.3 Local Search

Press the button to enter local search.

1. Display Setup and Data Information
In this area, you can select display partition mode, date, video channel and its video file named according to time.

2. Playing Operation Area
In this area, you can operate video playing.

(1). Video-playing Time Adjustment

Press and drag slider bar to adjust video-playing time.

(2). Information Display Panel:

Display current window name, camera name and record data information.

(3). Playing Control Buttons.

Play, Pause, Stop

(4). Single Frame Play

Previous frame, next frame

(5). Playing Speed Control

Slow play

Fast play

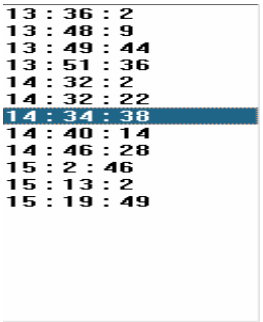
6.4 Remote Search

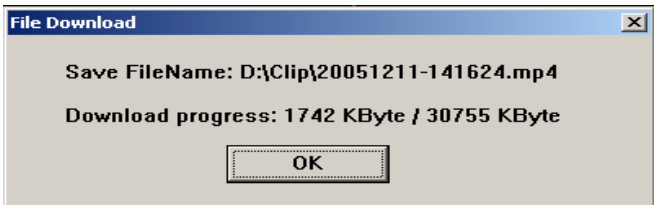
Most functions and operations of Remote search are the same as Local Search. The difference is that remote search has an added download feature.

When you playback, you click down , the system will save video of the current channel you selected, and after save finish one file, it will pop-up prompt to indicate its working.

Select one camera that has recorded data -> open file list panel -> select one record data package -> and click the

button. The selected data package will download quickly.





Note:
When the user uses the IE client to visit the DVR Client, if connected successfully, there will appear a four partition blue window. If connected unsuccessfully, the possible reasons are:

1. The Web server port has been used by other programs.
2. Your computer didn't download the player plug normally.
3. The jurisdiction of your computer is too high, or your computer has plug filter.

Chapter 7 Appendix A: E-Map Function

7.1 Introduction

7.1.1 E-Map Introduction

E-Map is installed in NVR to deal with a variety alarms, such as sensor alarm, motion detection alarm etc. If the setup is ok, when the alarm happens, it will automatically switch to display video images of related alarm cameras immediately. The user can click them to locate where the alarm was triggered out. And the corresponding names of the camera will be displayed on-screen.

7.1.2 Corresponding Configuration of E-Map

Both single monitor and dual monitor support E-Map. There are some referenced configurations and steps of setups for the above 2 situations.

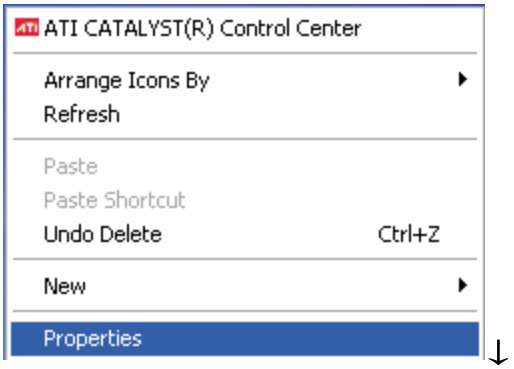
7.1.3 Single Monitor

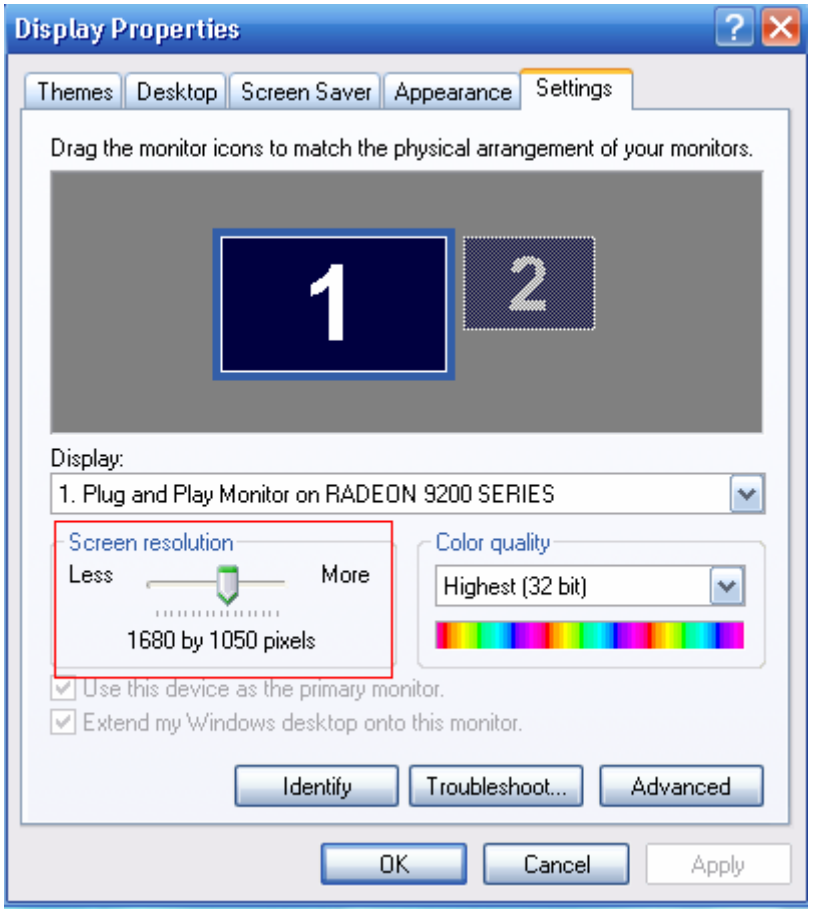
1. Configurations

NVR display resolution supports Auto, 1024*768, 1280*768, 1280*1024, 1366*768, 1440*900, 1600*900, 1680*1050 and 1920*1080. That is to say, 1024*768 is the least display resolution for NVR. So, when there is only one monitor, the user must set its resolution to more than 1024*768. Otherwise, the user can't use electro-map function. When the user opens NVR, the following dialog box will be displayed on the screen if user has already enabled the ***Use Electronic Map*** function in NVR ***System Setup***:

2. Steps of Setup

(1) Set Resolution



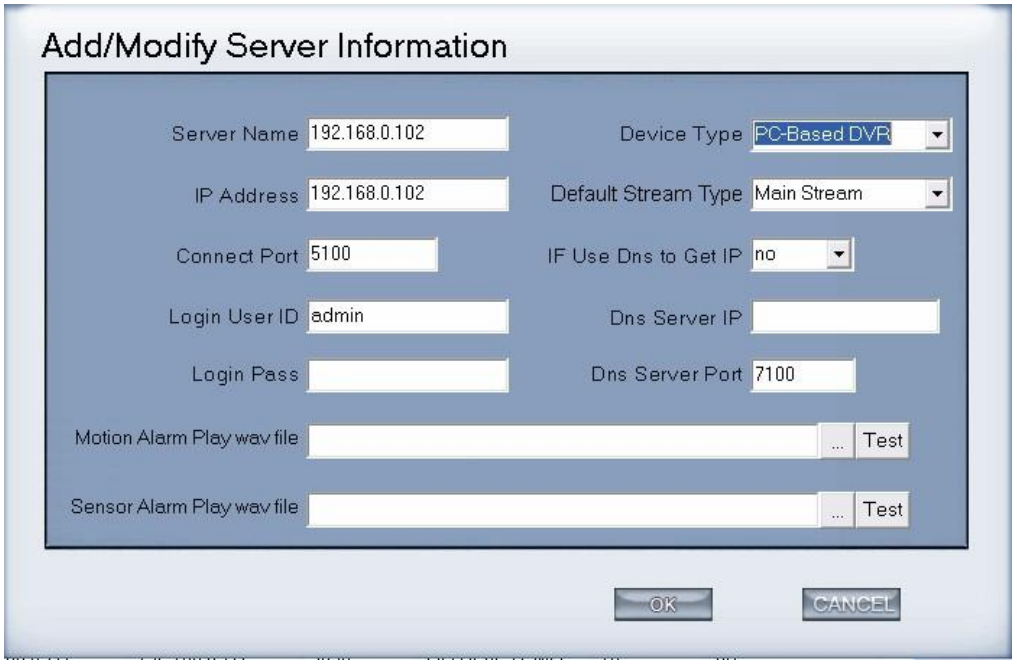


Note:

The screen resolution must be more than 1024*768 pixels if you want to use E-Map.

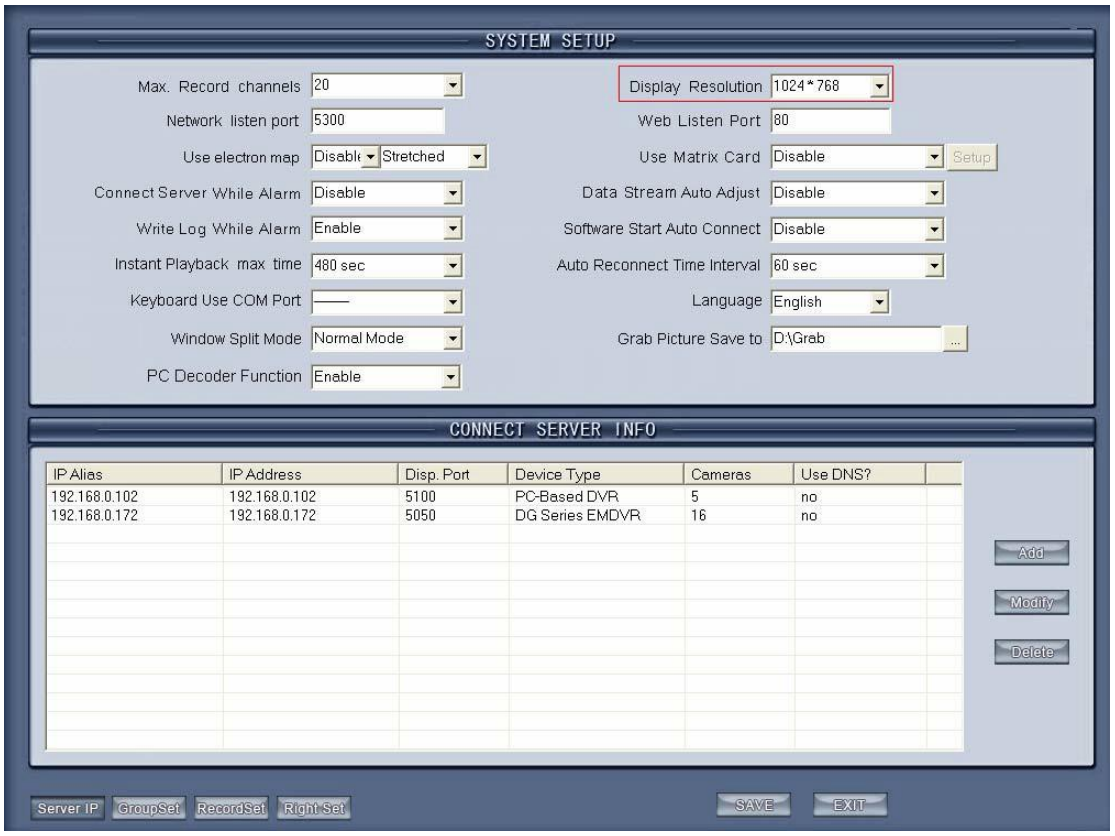
(2) Add Server

User can add PC DVR and IP server into the system. If you don't add any server in the system, you can't add any device in the map. The Add/Modify Server Information, the dialog box is shown below.

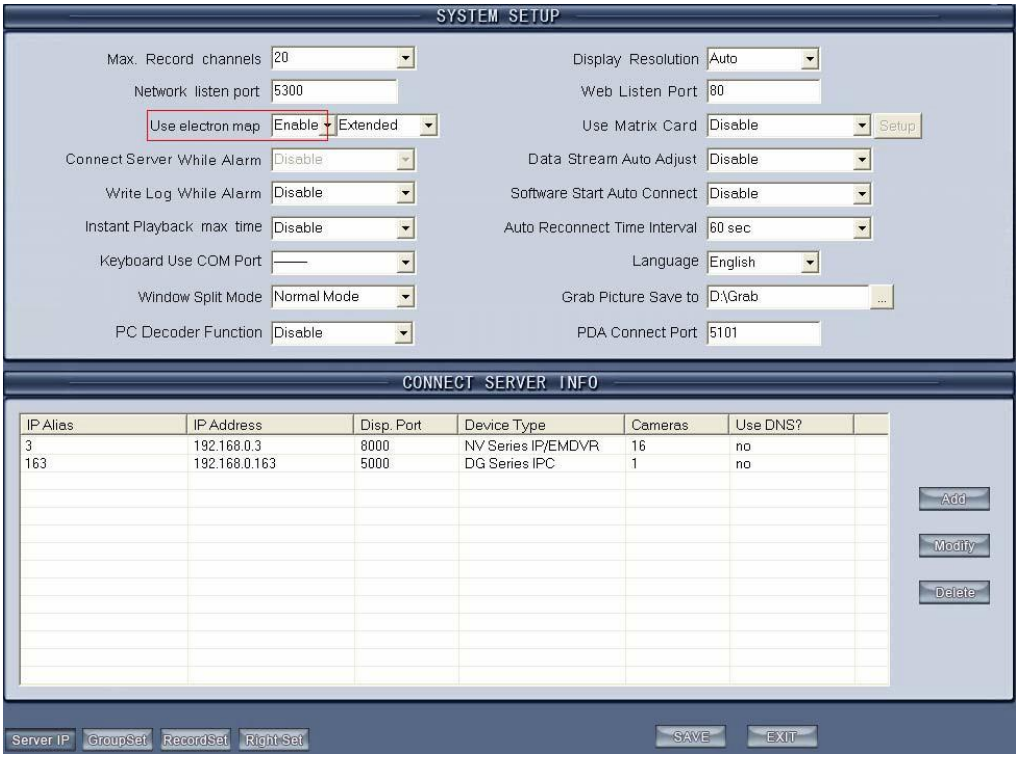


(3) Set NVR Display Resolution

We suggest you set the NVR Display Resolution to 1024*768, so that there will be more space for electronic map.



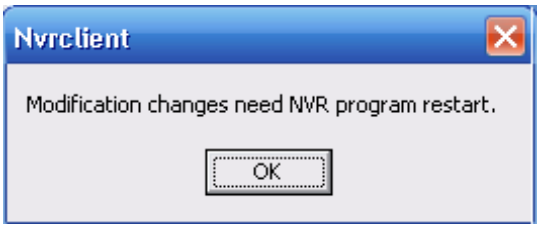
(4) Open Electronic Map



Now, connect the server while the alarm function is disabled automatically.

(5) Restart NVR

After the above operations, the system will prompt you to restart the NVR. Your setups will take effect after rebooting.



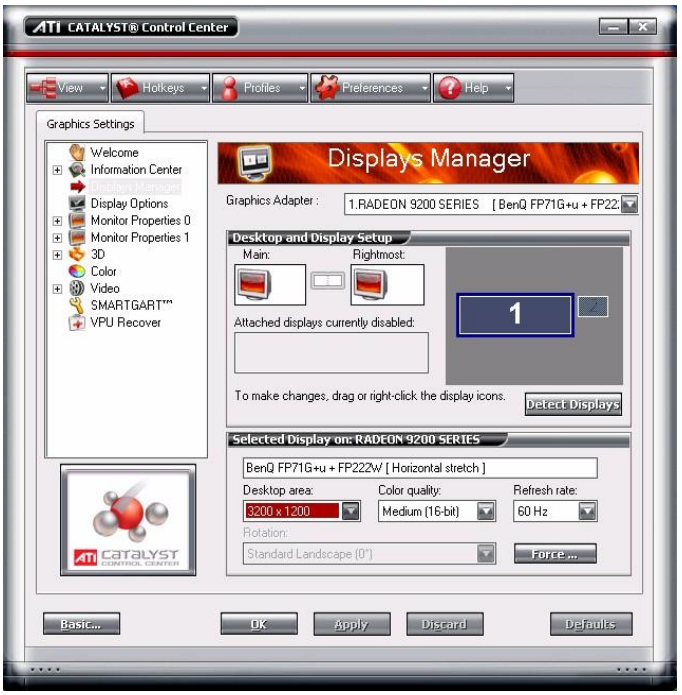
7.1.4 Dual Monitor

1. Configurations

(1) Stretch

The display card should support the dual monitor. We use the ATI 9200 display card. First you should connect the dual monitor to the display card.

The system can detect the dual monitors automatically, then you should select “Stretch Desktop 1 horizontally onto monitor” and the interface as below will be displayed:



The desktop area should be selected about double size of the one monitor. Now, the dual monitor is effective.

(2) Extend

Also, you can choose “Extend Main onto monitor”.

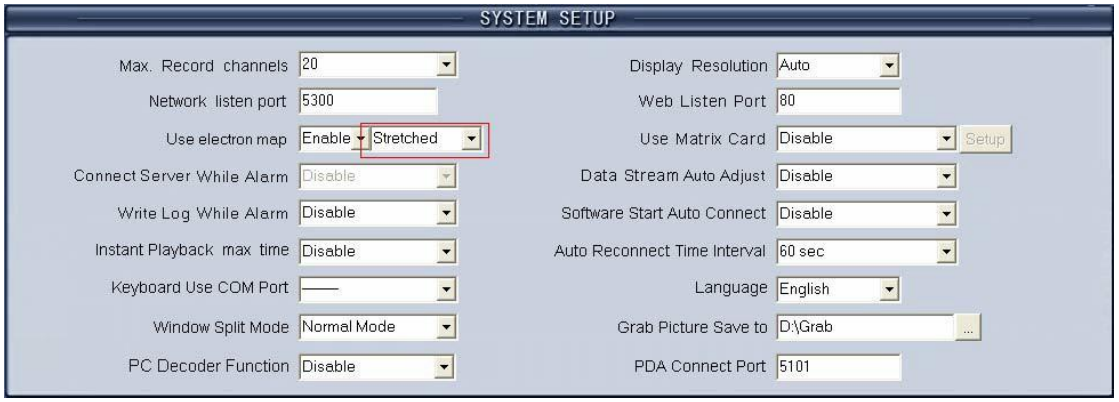
The two monitors should be set as the same size. Otherwise, something may be wrong. It is shown below.

Note:

1). If the old ATI display card doesn't support the “CATALYST Control Center”, you should download ATI Catalyst and install it. Then it can enter the setting interface in ATI catalyst control center.

2). If the length or width exceeds the scope that the screen can display, the monitor can’t display normally. In other words, when you are setting the ***Desktop Area***, you should not only consider whether your display card supports or not, but also your screen.

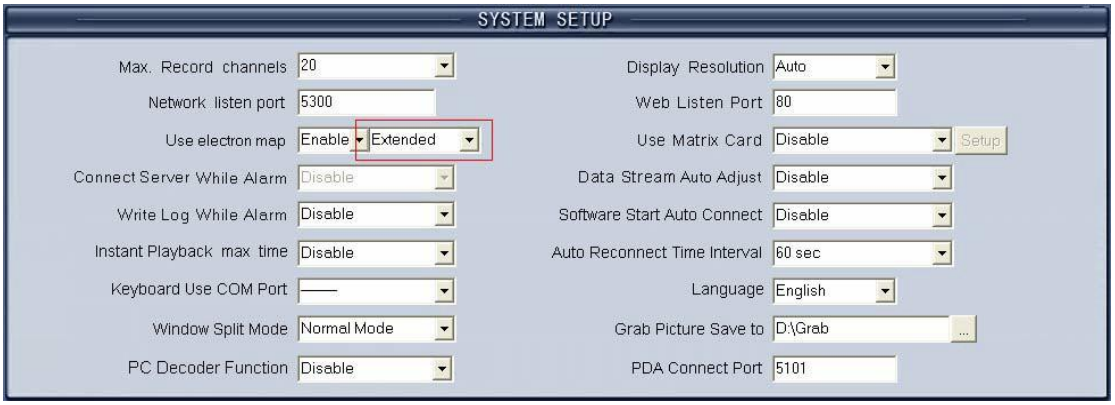
3). If you select “Stretch Desktop 1 horizontally onto monitor”, you should correspondingly choose “Stretched” in NVR ***system setup***.



Note:

Stretch mode is not supported in win 7 OS.

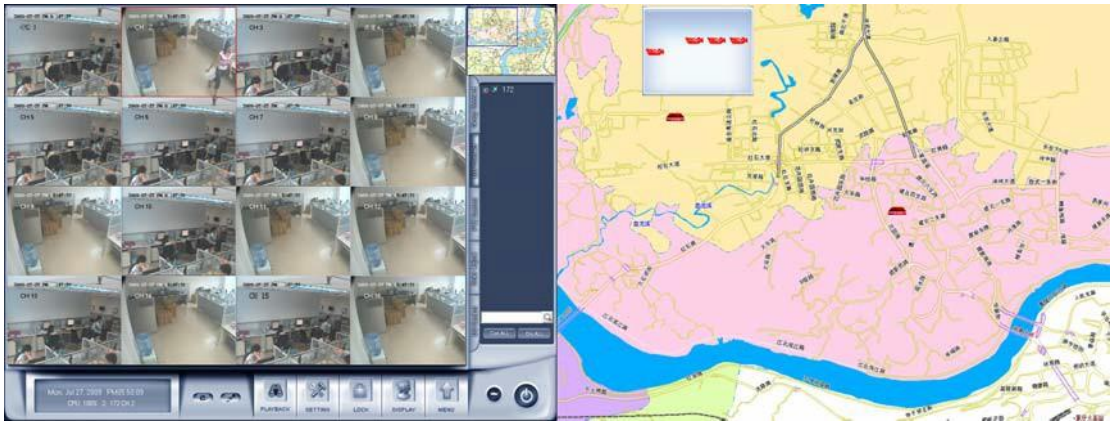
4). If you select “Extend Main onto monitor”, you should choose “Extended”.



2. Steps of Setup

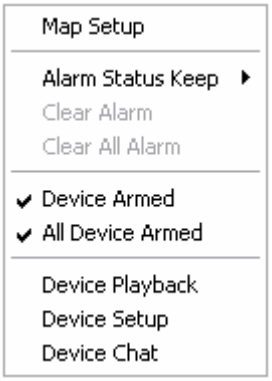
Also, the user should add server, set NVR display resolution, open electronic map and restart NVR. The steps are the same as Steps of Setup for single monitor, except the set of resolution. You can set ***Display Resolution*** as any one you like.

7.2 Main Interface



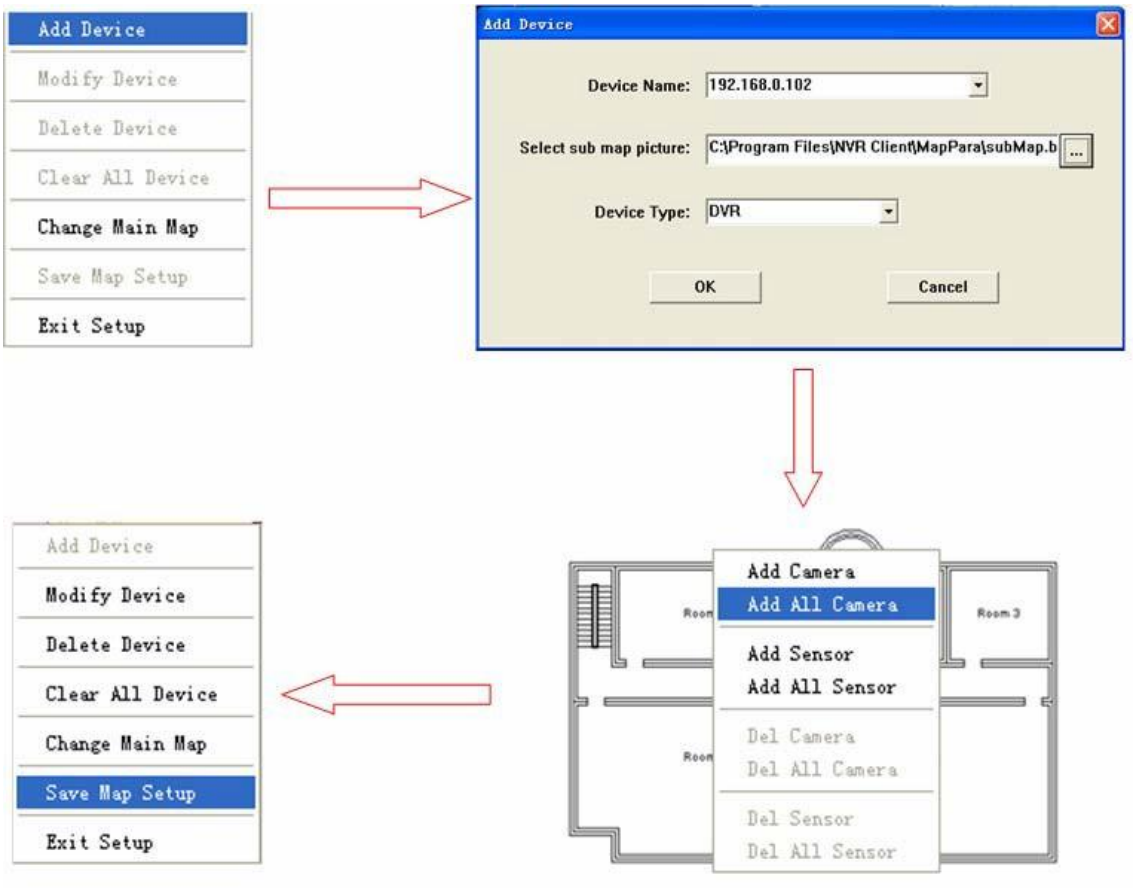
7.3 E-Map Menu

7.3.1 Map Setup



Click ***Map Setup*** to do the following operations.

1. Add Server and Related Operations

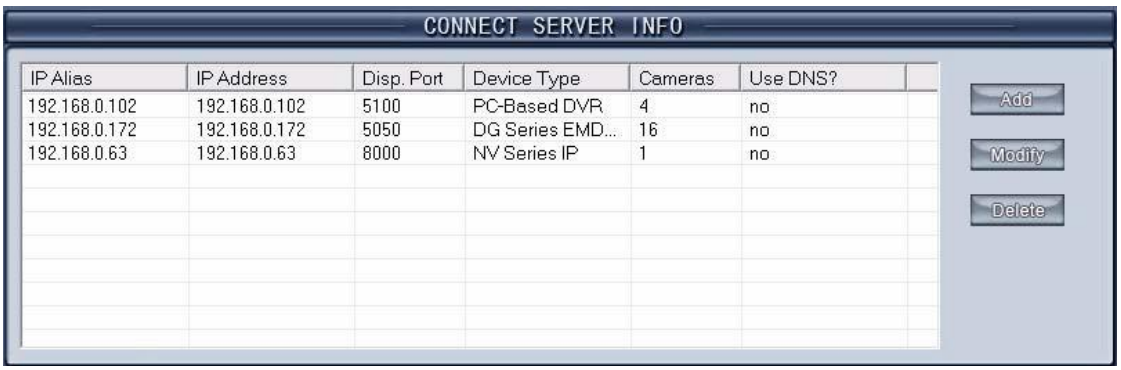


(1) Add Device

Select the device with its type and sub-map (press the ... button to select a map with a size from 160*120 to 640*480 pixels), and then press the OK button to finish adding a server. After that, the server icon will be displayed in the map area on the right screen. At the same time, it will be displayed in the compressed map.

Note:
When you press a server icon in the map, the sub map and name of it will be displayed immediately. You can double-click the sub map to close it;

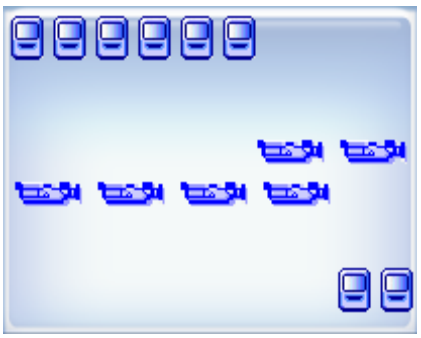
You can only add the device that you have added in ***system setup***. For example, here is a list of the connected server:



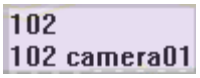
When you have all servers added into the map, you can't add any more. A dialog box will pop up to inform you.

(2) Add/Delete Camera or Sensor

After adding a server, the sub map of the server will also be displayed. In the sub map, you can single-right-click to add a camera or sensor. After adding the cameras and/or sensors, the sub map will show as below:



You can drag the cameras and sensors to where you want in the sub map. When you click one camera or sensor, the corresponding name will be displayed in the bottom left hand side of the main map.



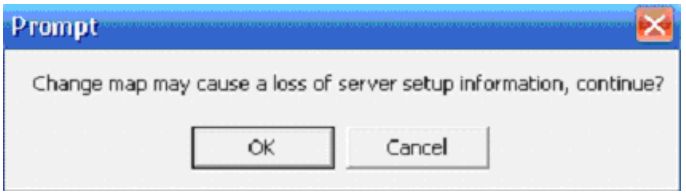
Then, you can single-right-click in the sub map area to delete camera or sensor.

(3) Modify/Delete Device/Clear All Devices

Single-right-click the device to choose Modify Device or Delete Device. You can also choose "Clear All Devices" to delete all devices at one time.

(4) Change Main Map

Click Change Main Map, a dialog box as below will be shown:



Click OK and choose a map from your files. Take care the map should be with size from 1024*768 to 4096*3072 pixels.

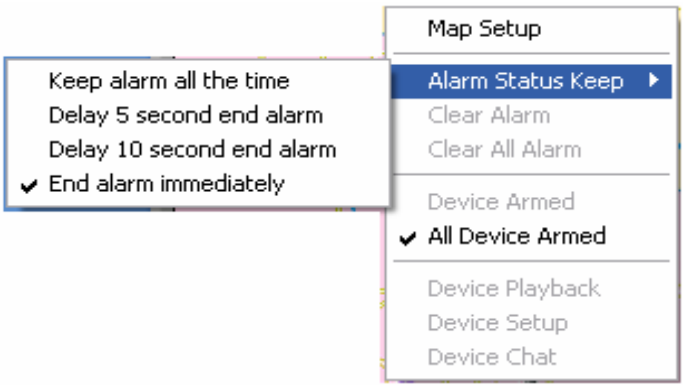
Then, you should choose ***Save Map Setup*** and ***Exit Setup*** to save and exit ***Map Setup.***

2. Device Armed

Click ***Device Armed / All Devices Armed*** (for more than one device) to select alarm setup. Then the device, including its cameras and sensors, will turn golden yellow. When a camera detects a motion alarm, it will turn red and blink. At the same time, the video of the camera will be displayed automatically on the left screen if the setup in the server is suitable.

3. Alarm Keep

Click ***Alarm Status Keep*** to enter the submenu and select the action when an alarm is ending. Selectable options are shown in the picture as below.



(1) Keep Alarm All the Time

When the alarm is kept all the time, the corresponding videos will also be kept on the screen.

User can choose ***Clear Alarm*** to clear the kept alarm for the device or click ***Clear All Alarms*** to clear alarm for all devices.

(2) Delay 5/10 Seconds Before End Alarm

Alarm will be cleared after 5 or 10 seconds.

(3) End Alarm Immediately

Videos of corresponding cameras will be cleared immediately when the alarm is ended.

4. Quick Operations

(1) Device Playback

This feature allows the user to search the server or a camera quickly. When you choose this function, the left screen will enter playback interface. For cameras that have no HDD, when you choose the Device Playback function, it will enter playback interface too. But there is no recorded data.

(2) Device Setup

Click this function to enter setup in NVR.

(3) Device Chat

Click this function to chat with the device.

7.4 Connect Server While Alarm

This function will take effect only when the electronic map is disabled.

After you enable this function, videos of corresponding cameras will be displayed on the left screen when alarms are triggered out. Of course, you should confirm your setup in the device is suitable first.

Chapter 8 Appendix B: PC Decoder

Function

8.1 Introduction

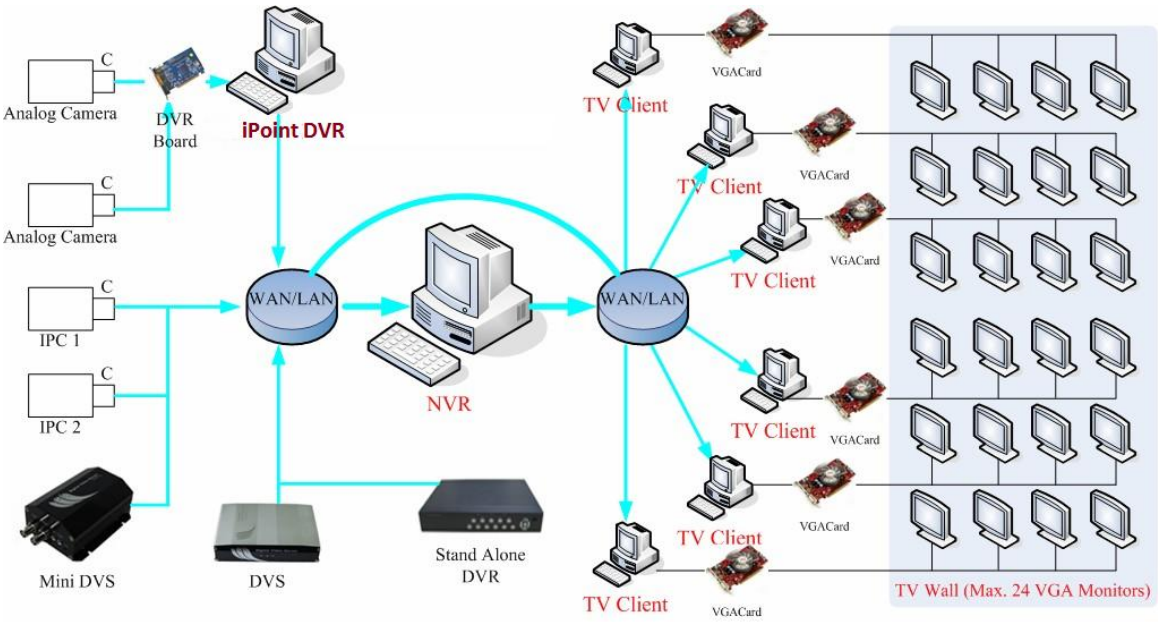
8.1.1 PC Decoder Introduction

PC Decoder, a pure IP-based network Decoding & Matrix platform, is integrated to support multi-monitor for TV wall function. By using this platform, a user can decode all IP videos, such as video from PC-DVR, stand alone DVR, DVS and IP cameras (any brands supported by our software).

PC Decoder is made up of server-end and client-end. Its sever is added into NVR to support centralized management, including setting connection port, setting matrix output and display for each TV client and controlling PTZ etc. Its client ends run on independent computers.

User can connect as many as 24 monitors to TV clients. Of course, it needs your video card in TV client. System supports multi-monitor when you want to connect more than one monitor on a PC.

The frame diagram of application is below:



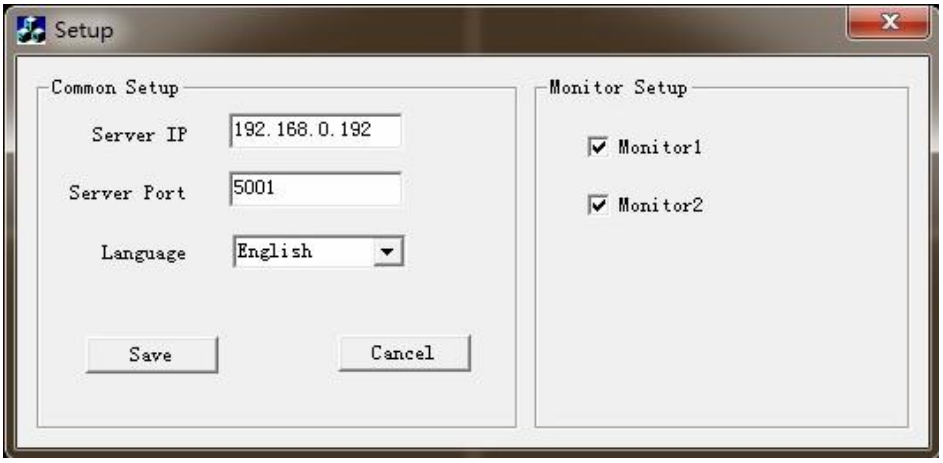
8.1.2 Preparation

1. Installation

You have to install the NVR client (the sever end of PC Decoder) and TV client (the client end of PC Decoder) on different PC's. The way to install NVR is the same as before. So we will only introduce how to install TV client here.

Double click this icon

to run the TV client installation program. Then, follow the prompt to continue the installation. When the GUI is shown as displayed below, fill the NVR IP in "Server IP". Take "192.168.0.192" as example. Select your desired language between "English" and "Chinese". "Server Port" here should be the same with "Listen Port" in NVR ***PC Decoder Setup***. It's 5001 by default. Then, press "Save" to finish the information filling. Lastly, press "Finish" to complete the installation.



When that is done, the

icon will be displayed on the desktop. Double click it to run the program.

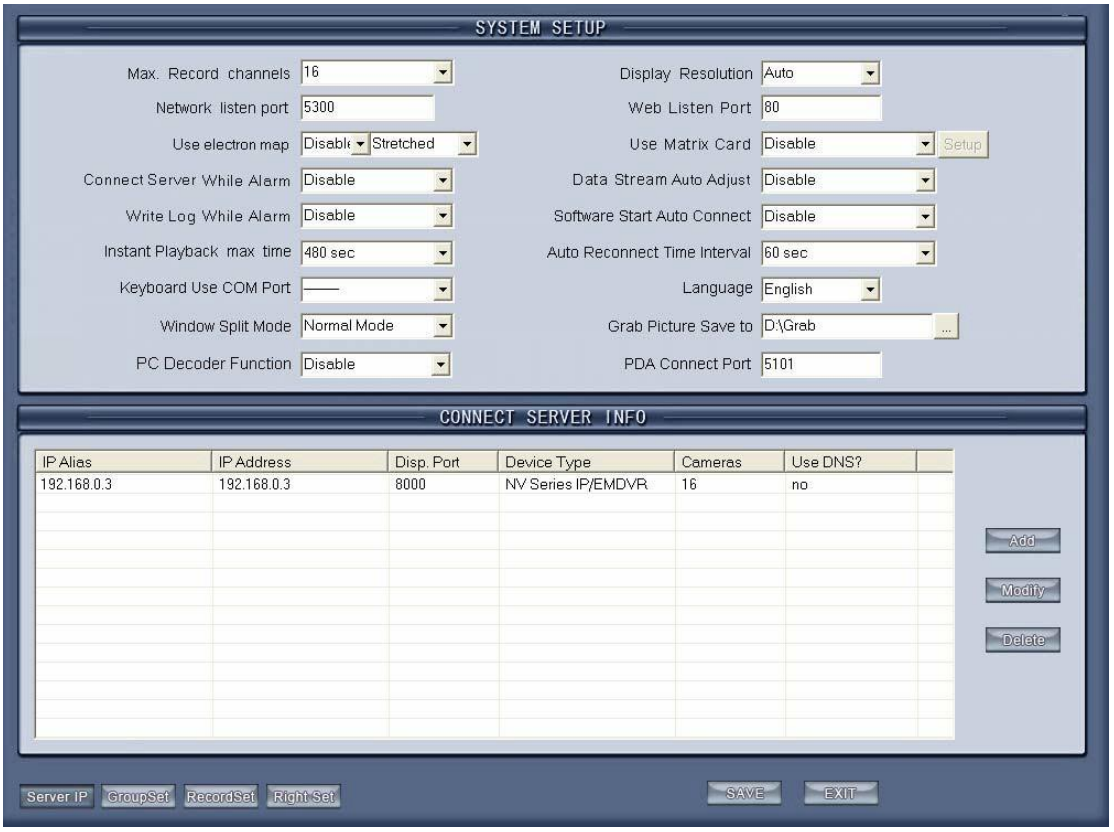
Also, you can fill the server IP later after you finished the installation.

When you want to change the sever IP to others, you have to run "TVsetup.exe" in the installed folder to change the IP.

2. Multi-monitor Setup
Please refer to section 7.1.4 for details.
So far, the operations at TV client side are done.
By default, there will be four black windows on each monitor when you run the TV client for the first time.

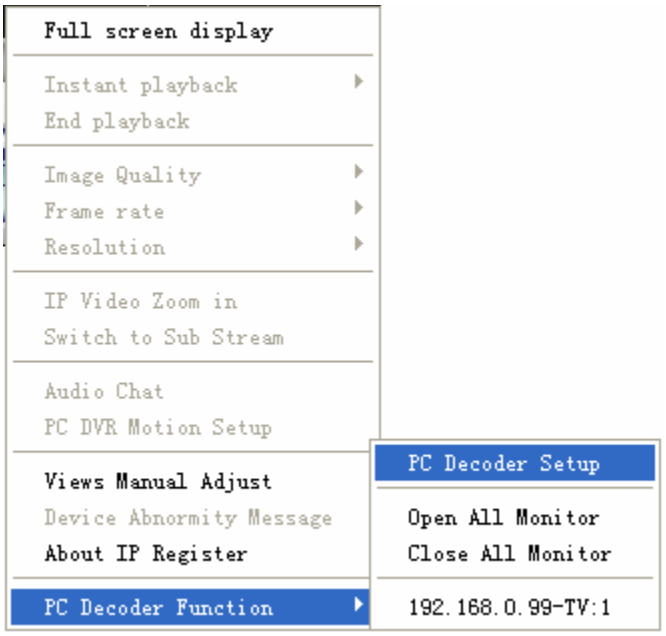
8.2 Setup

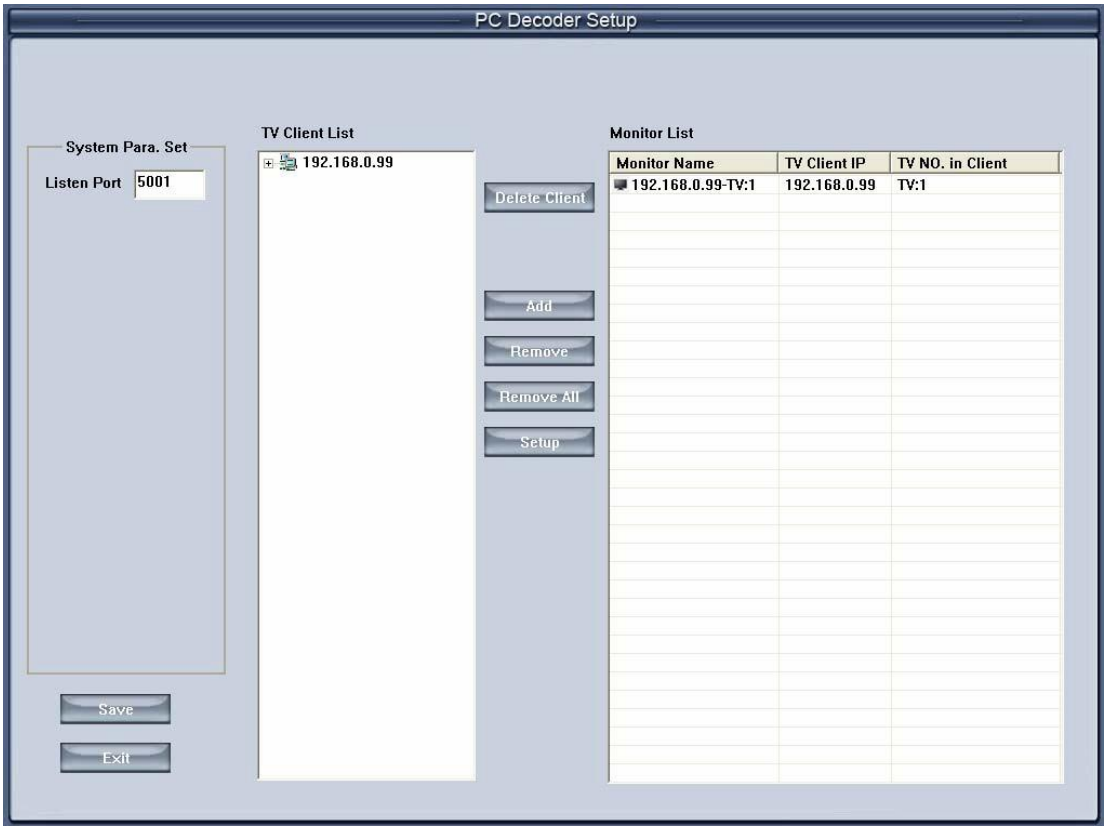
All the settings can be done in NVR client, the sever end of PC Decoder. Client end is mainly used to view videos.
First of all, the user has to enable ***PC Decoder Function*** in NVR system setup. Shown as below:



8.2.1 Monitor Setup

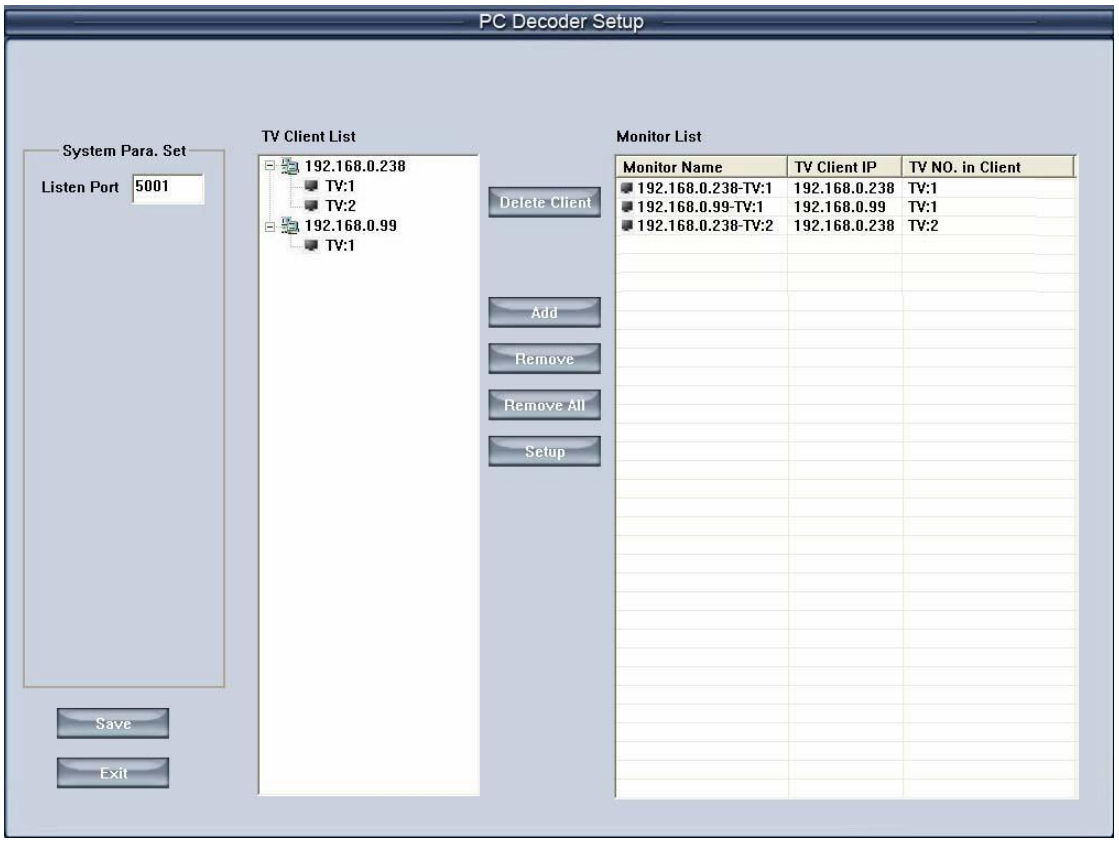
Single-Right-Click in any window, the menu as below will be displayed. Click “PC Decoder Function”Æ “PC Decoder Setup” to enter ***PC Decoder Setup***.





The IP “192.168.0.99” here is one of the PC’s you installed TV client on. After you filled the NVR IP “192.168.0.192” (the sever end, mentioned before) in login interface when running TV client, its IP will be displayed here automatically. Click the “Add” button to add it to the Monitor List so that you can setup it later.

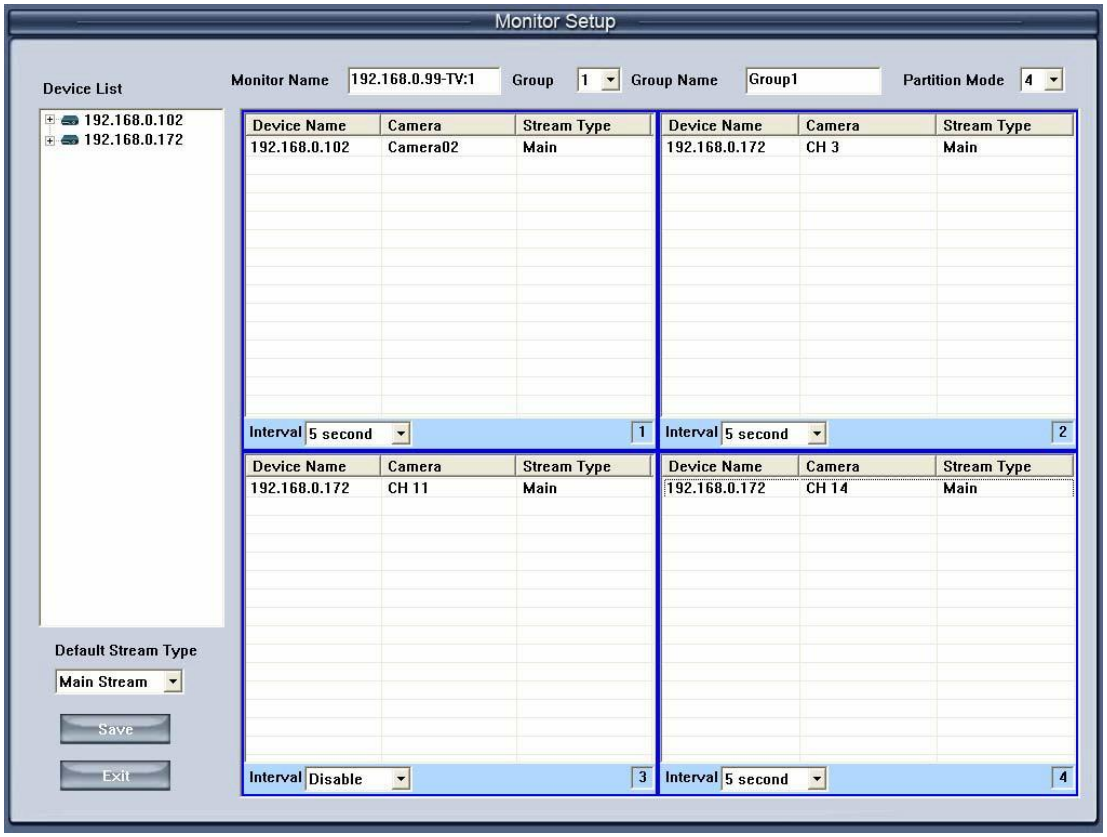
“TV: 1” is the main monitor in TV client. When there are dual monitors, the second monitor will be shown as “TV: 2” here.



1. Group Setup

Double-click one TV monitor in the “Active Monitor List” to enter “Monitor Setup”, displayed below.

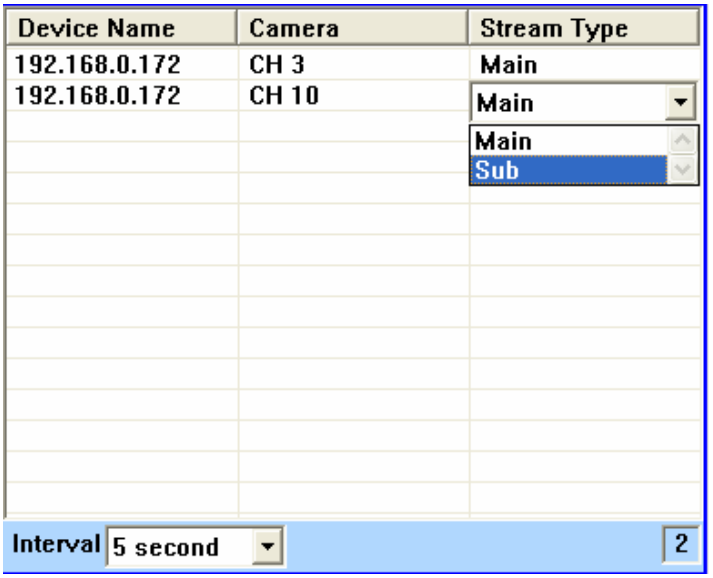
You can set as many as 16 groups for each TV monitor.



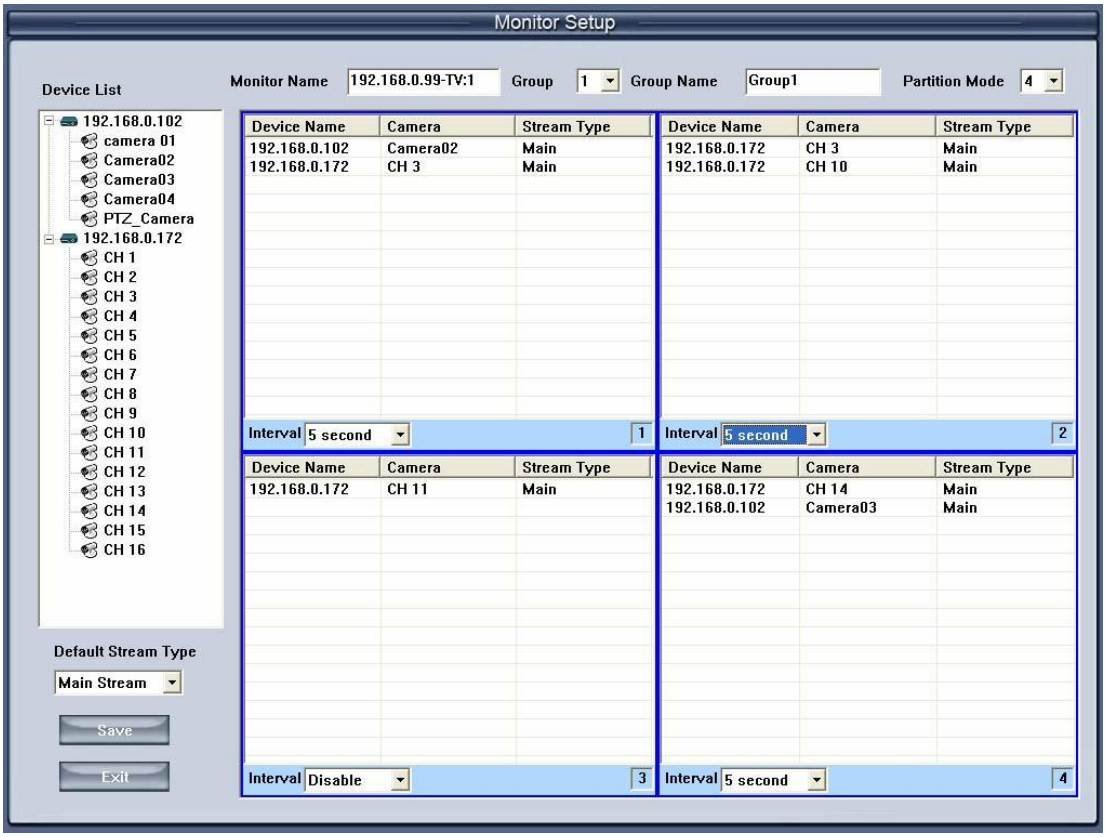
Select a group from the drop-down list to set it. You can define its name and partitions. The changed group name will be activated after the software is restarted. There are 1, 4, 9 and 16 partitions modes.

You can drag any camera's name to the display window. Default stream type can be selected between "Main Stream" and "Sub Stream". After that, all the cameras in this group will display their main stream or sub stream in TV client. When you want to cancel the display of one camera in one window, double click it to remove. For example, you can double click "1.3M IP" to remove it from the 7th window.

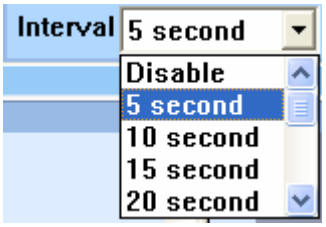
Also, you can change the stream type of some cameras, or not all. Move the mouse to the stream type, then, there will be a drop-down list displayed. Select one stream type from the list to display. The cameras where you didn't change their stream type will be displayed as "Default Stream Type".



2. Loop Setup
You can display more than one camera in a window.

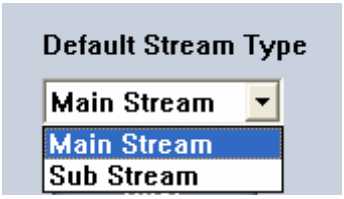


The only thing you have to do is set the interval. You can set it as 5, 10, 15 or 20 seconds, etc. The greatest interval here that you can set is 60 seconds.

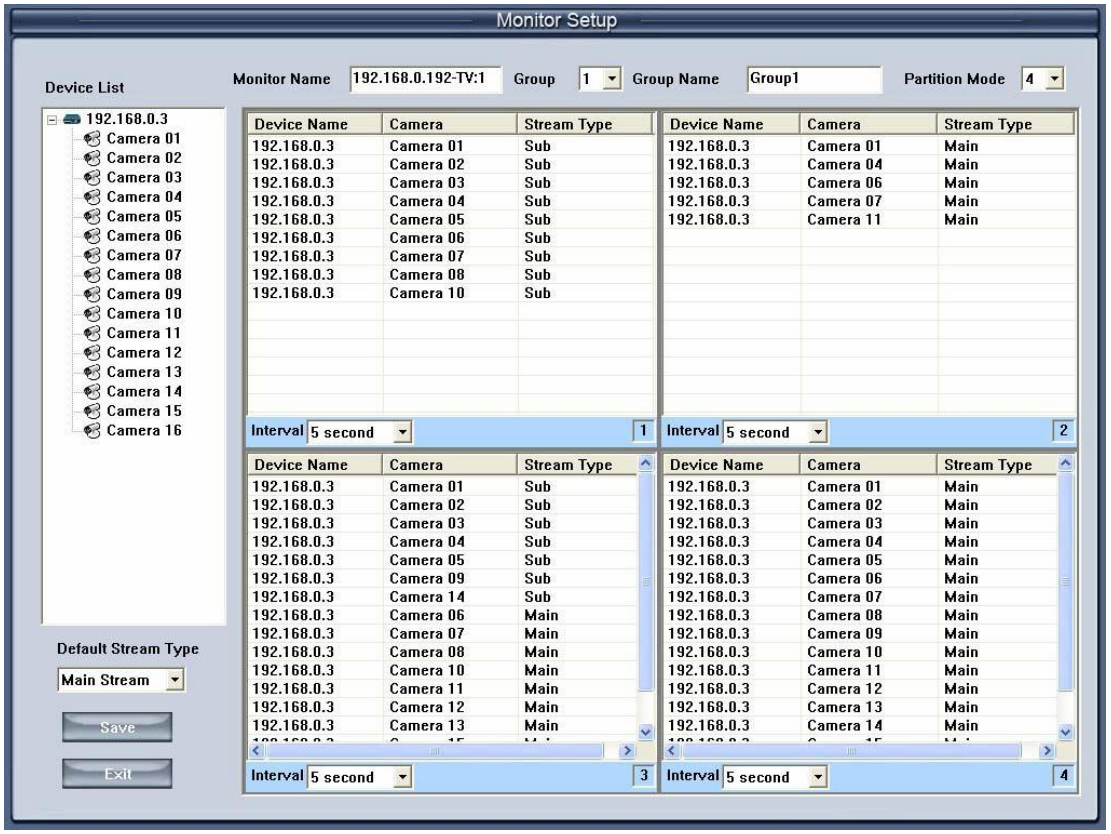


When all the settings are done, don't forget to click the "Save" button on the left. You should click "Save" in both "Monitor Setup" and "PC Decoder Setup" interface. Then, click "Exit" to exit the setup.

3. Default Stream Type Setup

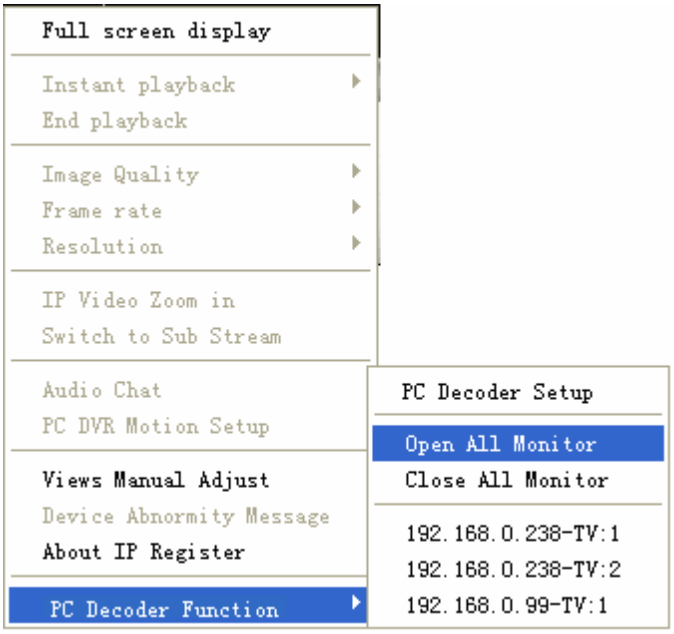


Select a default stream type from "Main Stream" and "Sub Stream". If main stream is selected, then, all of the cameras you drag to the window will be displayed as main stream until you select "Sub Stream" from the list. If you don't want to set main stream or sub stream for your cameras one by one, this is a good choice.



8.3 Monitor Control

8.3.1 Monitor Status Display



Select “Open All Monitors” in the right click menu to view all the monitors connected in the system. You can drag them to anywhere. The names of current display cameras on the TV client will be shown in the monitor window.

Also, you can open only one monitor at a time via selecting it in the monitor list below “Close All Monitors”. For example, click “192.168.0.99-TV: 1” to open the third monitor in the list shown as above.

You can adjust the view mode, select cameras or groups to display and control PTZ on the monitor you opened just now. For more details, please refer to section 8.3.2.

8.3.2 Monitor Control

1. View Adjust

   Click the

icon on monitor to enter this menu:

The user can adjust the window split mode to 1, 4, 9 or 16 views mode. When you select “Hide”, the windows on the TV client will be hidden. Also, select “Show” to show the TV client windows.

When you select “Restart”, TV client will stand by.

2. Display Groups

Click the >> icon on the monitor window to open the group name list. Select one group to display on the TV client. And the corresponding camera's names will be displayed in the monitor window.

When you select "Close All", you will close all the groups. At that time, there will be no camera displayed on the TV client. And the monitor windows will turn to black. But you can drag cameras from the "List Connect" panel to monitor windows to display. Also, you can select a group name again to display.

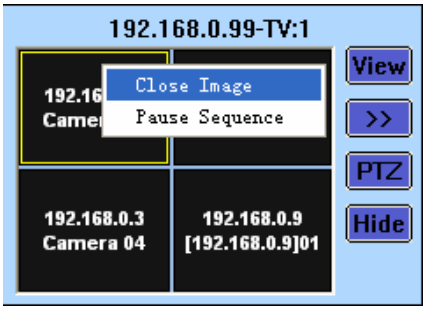
3. PTZ Control

Click the PTZ icon on the monitor window to enter the PTZ control menu.

PTZ can only be controlled when a PTZ camera is selected. It's nearly the same with the operations on the PTZ control panel. But you can only call the preset you have set. You can't set the preset here.

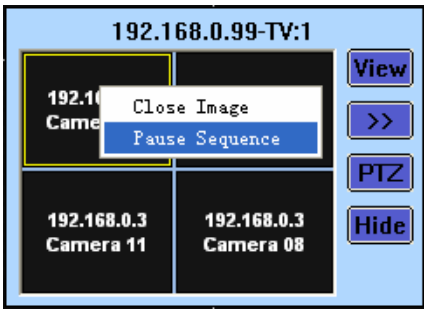
When there is more than one camera displayed in a window, you can't control the PTZ. But you can drag the PTZ camera to this window to stop the loop in the window and then control PTZ.

4. Close Image

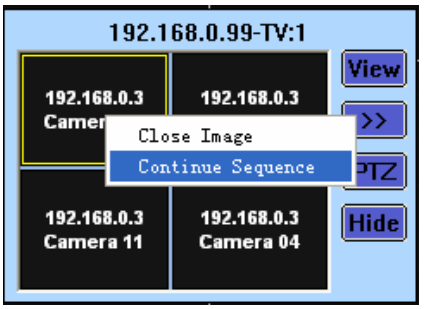


Single-right-click in any window you like and then press "Close Image" to not display any video in that window. Of course, even when there are more than one camera loop in that window, they will all be closed.

5. Pause/Continue Sequence
Single-right-click in any window you like and then press "Pause Sequence" to stop the loop in that window.

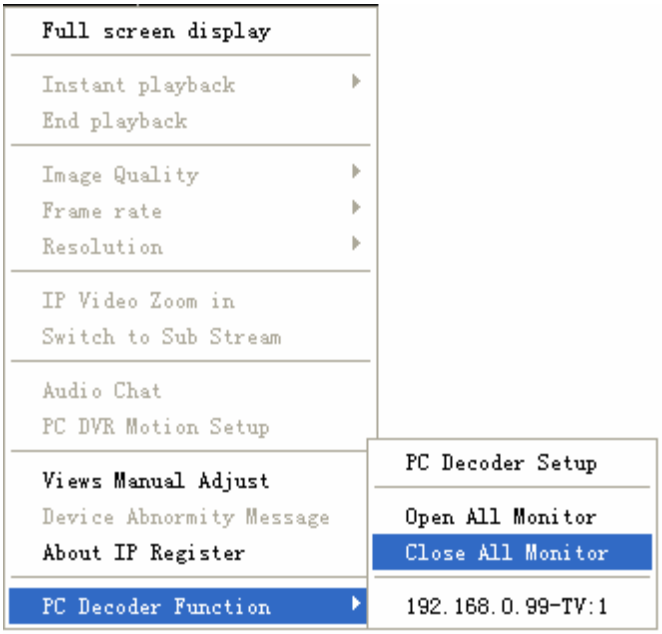


After "Pause Sequence" is pressed, it will turn to "Continue Sequence" when you enter the menu again. Press it to continue the loop in the window.

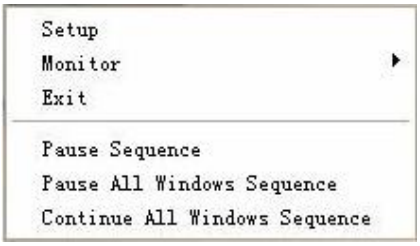


6. Close/Hide Monitor
Click the Hide icon on the monitor window to hide the window when you finished the settings.

Also, you can select "Close All Monitors" in right click menu to close all the monitors you have open.

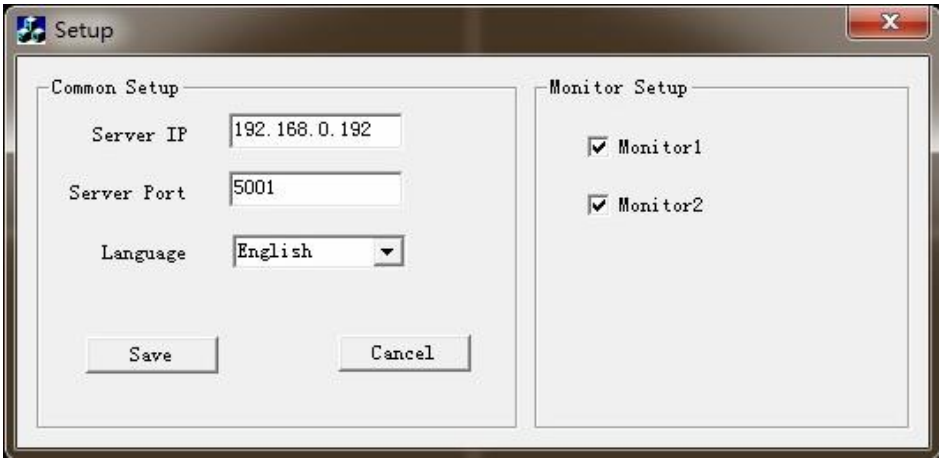


8.4 Operations on TV Client



8.4.1 Setup

Click “Setup” to enter the interface shown as below. Please refer to section 8.1.2 for details.

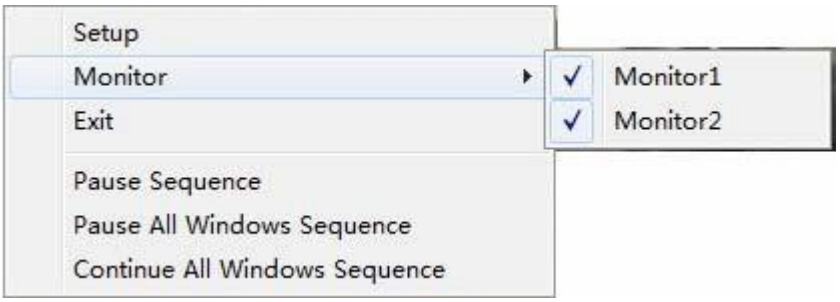


All the monitors connected to the TV client will be listed here. They are all checked as default so that they can be displayed. If you want to hide one monitor, don't check it. Please Refer to section 1.4.2 for details.

Also, you can single-right-click the small icon on the task bar and then select "Setup" to enter the setup interface.

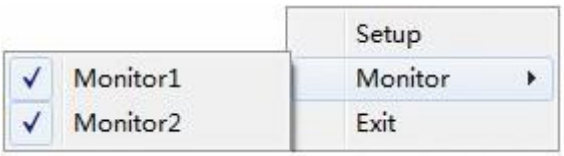
8.4.2 Monitor Control

1. Display/Hide the Monitor

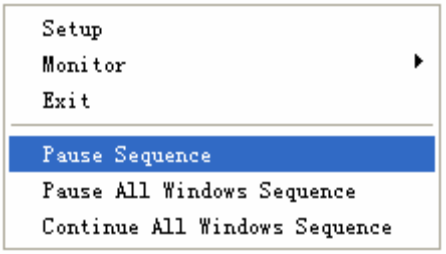


All the monitors connected on the TV client PC will be listed there if you click "Monitor". Select one monitor to hide it. If you don't check "Monitor 2" here, then, the monitors will like this (The second monitor displays the desktop only.):

If you want to display it again, single-right-click the small icon on the task bar and then check it from the monitor list.



2. Pause/Continue Sequence



Pause/Continue Sequence will only pause or continue the loop in the window you selected.

Pause/Continue All Windows Sequence will pause or continue to loop all of the windows in the display group.

3. Exit
Click “Exit” on the single-right-click menu to exit the monitor.

Also, you can single-right-click the small icon on the task bar and then select “Exit” to exit the monitor.